



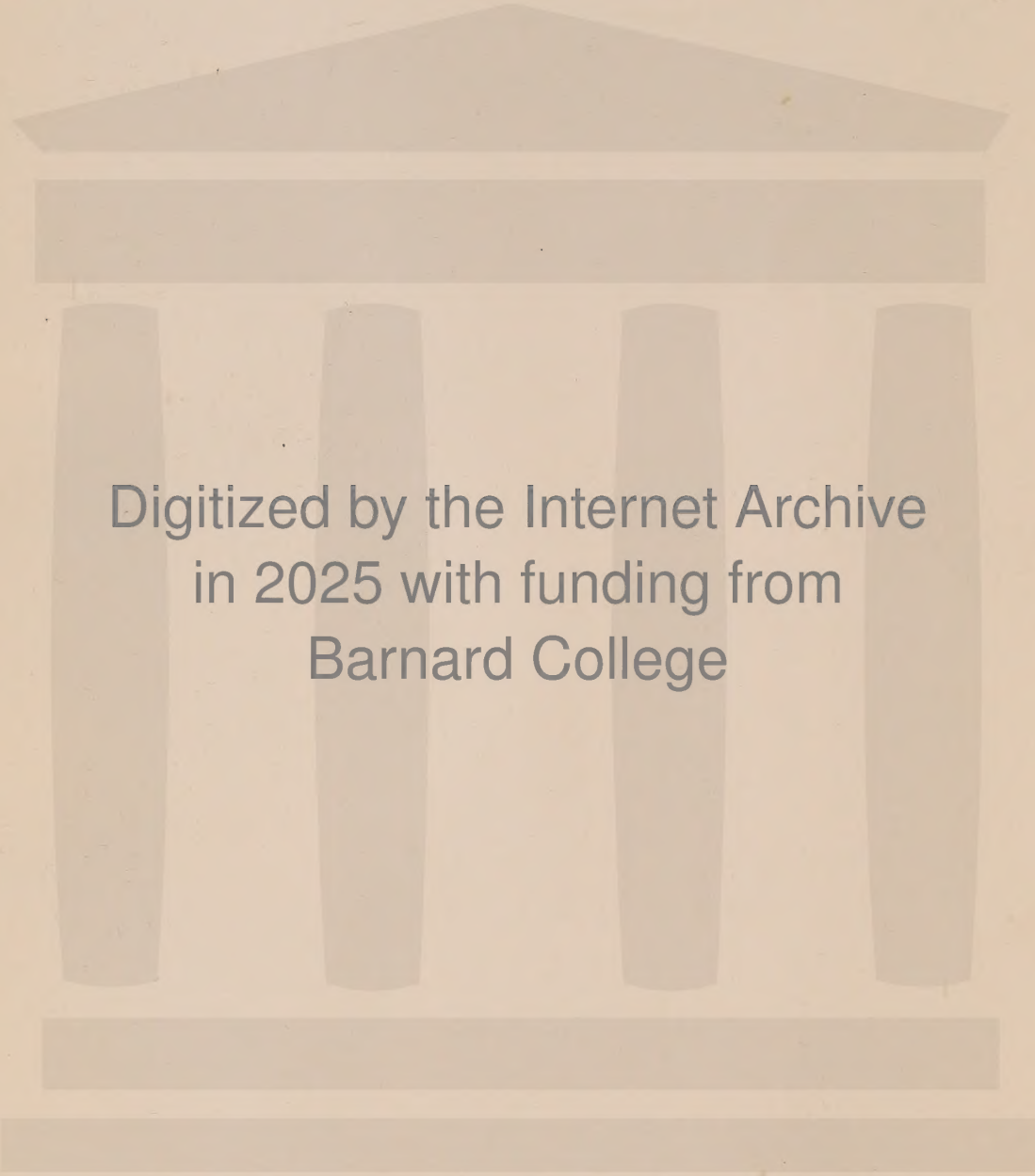
Columbia University
Bulletin of Information

BARNARD COLLEGE

ANNOUNCEMENT

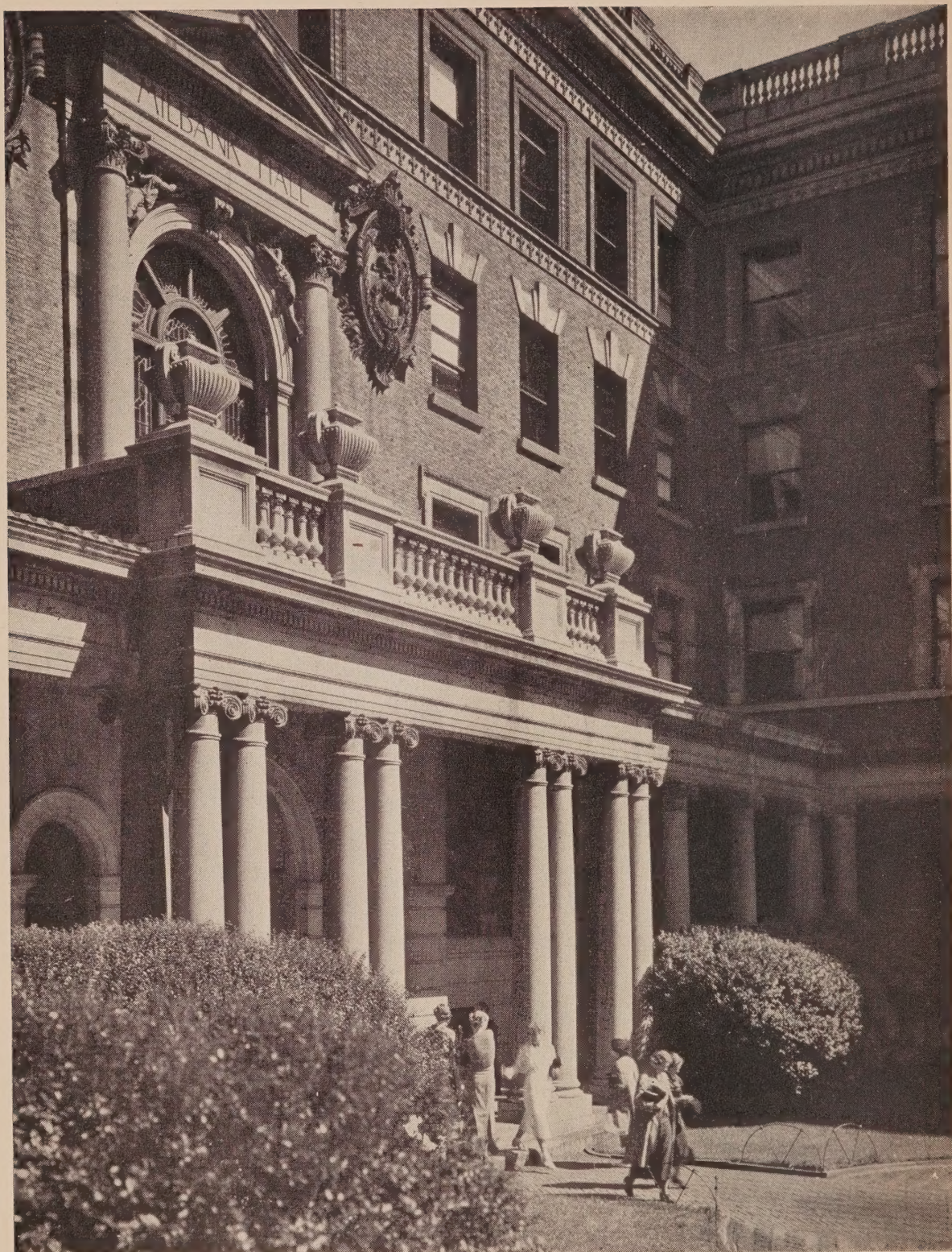
1937-1938

Frances Warrington
Bursar's Office



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MILBANK HALL, BARNARD COLLEGE

Columbia University
in the City of New York

BARNARD COLLEGE

1937—1938



MORNINGSIDE HEIGHTS
NEW YORK

FORM OF BEQUEST

To Barnard College I give and bequeath the sum of \$ for
the uses and purposes of said Corporation.

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1937

NOTE. The date after each name indicates the expiration of the term of office.

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MR. JAY (1938)

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MR. BRADFORD

MR. READ

THE CHAIRMAN OF THE BOARD OF TRUSTEES
(*ex officio*)

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[Any donor of not less than \$5,000 will be enrolled among the founders of
Barnard College.]

- | | |
|--|---|
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|--|---|

* Deceased.

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Anthon Professor Emeritus of the Latin Language and Literature in Residence

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JAMES T. SHOTWELL, Ph.D., LL.D. Professor of History

EDWARD KASNER, Ph.D. Professor of Mathematics

WILLIAM P. MONTAGUE, Ph.D. Professor of Philosophy

— ³ MARIE REIMER, Ph.D. Professor of Chemistry—

³ WILHELM ALFRED BRAUN, Ph.D.
Professor of the Germanic Languages and Literatures

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JOHN LAWRENCE GERIG, Ph.D., Litt.D. Professor of Celtic

³ ROBERT E. CHADDOCK, Ph.D., LL.D. Professor of Statistics

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GERTRUDE M. HIRST, Ph.D. Professor of Greek and Latin

— IDA H. OGILVIE, Ph.D. Associate Professor of Geology—

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HARRY L. HOLLINGWORTH, Ph.D. Professor of Psychology

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— ³ AGNES R. WAYMAN, A.M. Associate Professor of Physical Education—

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¹ EDWARD MEAD EARLE, Ph.D. Associate Professor of History

¹ RAYMOND MOLEY, Ph.D. Professor of Public Law

CAROLINA MARCIAL-DORADO, A.M. Assistant Professor of Spanish

ALMA DE L. LEDUC, Ph.D. Assistant Professor of French

HELEN H. PARKHURST, Ph.D. Associate Professor of Philosophy

¹ Absent on leave, 1937-38.

³ Absent on leave, Spring Session.

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	<i>Lieber Professor of Political Philosophy and Sociology</i>
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	Associate Professor of Sociology
	Assistant Professor of Physics
MABEL FOOTE WEEKS, A.B.	Associate in English
HELEN P. ABBOTT, A.M.	Assistant to the Dean
MARIA DE MAEZTU, Litt. D.	Visiting Professor of Spanish
FRANK H. BOWLES, A.M.	Acting Director of University Admissions

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MARY ELY LYMAN, Ph.D.	Associate in Religion
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J. EMILIE YOUNG, A.M.	Instructor in History
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MARGARET HOLLAND, B.S.	Instructor in Physical Education
RODERICK DHU MARSHALL, Ph.D.	Instructor in English
LOUISE M. ROSENBLATT, D. Univ. Paris	Instructor in English

¹ Absent on leave, 1937-38.

³ Absent on leave, Spring Session.

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	<i>Instructor in Physical Education</i>
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CONSTANCE E. SMITH, A.B.	<i>Assistant in English</i>
DOROTHY A. BRAUNECK, A.B.	<i>Assistant in Geology</i>

MARY E. LADUE, A.B.	Assistant in Mathematics
MAGDA ARCE	Assistant in Spanish
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RUTH E. SNYDER, A.B.	Assistant in Zoölogy
HELEN B. HORNOR, A.M.	Assistant in Zoölogy
J. EDWERTA MERRILL, A.M.	Assistant in Zoölogy

Other Officers of the University Who Give Instruction in Barnard College

GEORGE SHERBURN, Ph.D.	Professor of English
DANIEL GREGORY MASON, Mus.D., Litt.D.	MacDowell Professor of Music
¹ WENDELL T. BUSH, Ph.D.	Professor of Philosophy
SETH BINGHAM, A.B., Mus. Bac.	Associate Professor of Music
HORACE L. FRIESS, Ph.D.	Associate Professor of Philosophy
LOUIS HERBERT GRAY, Ph.D.	Professor of Comparative Linguistics
CHARLES DOERSAM, F.A.G.O.	Music, University Extension
HERBERT DITTLER	Assistant Professor of Music
MOSES HADAS, Ph.D.	Instructor in Greek and Latin
JANE DORSEY ZIMMERMAN, A.M.	Associate in Speech
GILBERT A. HIGHET, M.A. (Oxon.)	Associate in Greek and Latin

Barnard Representatives on the University Council

The DEAN (*ex officio*), Professor HIRST (serving until June, 1938), and Professor MULLINS (serving until June, 1939).

Barnard Representatives on the University Committee on Admissions

MR. BOWLES, *chairman*, and the DEAN (*ex officio*).

MEMBERS OF BARNARD SUB-COMMITTEE: Professors BRAUN, HUTTMAN, and LATHAM.

Standing Committees of the Faculty

Committee on Instruction: The DEAN, *chairman*, Professors MONTAGUE, REIMER, OGILVIE, HUTCHINSON, SINNOTT, GREET, LATHAM, and PEARDON, and Associate Dean GREGORY (*ex officio*).

Committee on Scholarships: The DEAN, *chairman*, Professors HIRST, HOWARD, and REICHARD, MISS WEEKS, DR. CLARK, and DR. MURET.

Committee on Honors: The DEAN, *chairman*, Professors OGILVIE, KELLER, HALLER, BYRNE, and OLIVER.

Committee on Student Affairs: The DEAN, *chairman*, Professors MONTAGUE, BRAUN, and LOWTHER, DR. CLARK, and MISS WEEKS, *secretary and executive officer*.

Committee on Students' Programs: Associate Dean GREGORY, *chairman*, Professors HUTTMAN, LEDUC, CAREY, HOLZWASSER, and REYNARD, MISS WEEKS, DR. LYMAN, MISS YOUNG, MRS. STABENAU, DR. ROSENBLATT, DR. ANASTASI, DR. BEHRENS, DR. ELIOT, MRS. BAILEY, and the DEAN (*ex officio*).

¹ Absent on leave, 1937-38.

Committee on Schedule of Hours: Associate Dean GREGORY, *chairman*, Professors MULLINS and LOWTHER, and the DEAN (*ex officio*).

Committee on Transfers: Professors LOWTHER, *chairman*, Professors SMITH and PEARDON, DR. LAWRENCE, and the DEAN (*ex officio*).

Committee on the Foreign Language Requirement: Associate Dean GREGORY, *chairman*, Professors PUCKETT, FAIRCHILD, and HOFFHERR, and the DEAN (*ex officio*).

Committee on Women University Undergraduates: The DEAN, *chairman*, Professors HAZEN, HUTTMAN, and HALLER, the DIRECTOR OF UNIVERSITY EXTENSION, and the ACTING DIRECTOR OF THE UNIVERSITY COMMITTEE ON ADMISSIONS (*ex officio*).

Officers of Administration

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KATHARINE S. DOTY, A.M.	<i>Assistant to the Dean — Occupation Bureau</i>
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MARY V. LIBBY, A.B.	<i>Assistant to the Dean — Admissions, Information</i>
HELEN P. ABBOTT, A.M.	<i>Assistant to the Dean — Residence Halls</i>
HELEN ERSKINE, A.M.	<i>Assistant to the Dean — Outside Contacts</i>
HELEN K. STEVENS, A.B.	<i>Assistant to the Dean</i>
GULIELMA F. ALSOP, M.D.	<i>College Physician</i>
BERTHA L. ROCKWELL	<i>Librarian of Barnard College</i>
EMILY G. LAMBERT, A.B.	<i>Bursar</i>
JOHN J. SWAN, M.E.	<i>Comptroller of Barnard College</i>
FREDERICK A. GOETZE, M.Sc.	<i>Treasurer of the University</i>
REV. RAYMOND C. KNOX, S.T.D.	<i>Chaplain of the University</i>
WILLIAM H. McCASTLINE, M.D.	<i>University Medical Officer</i>

Barnard College

GENERAL STATEMENT

Columbia University. — Columbia University had its origin in the royal charter granted by Letters Patent in the reign of George II, King of England, to the Governors of the College of the Province of New York, in the City of New York, in America, creating them a Body Corporate to erect and maintain a college to be known as King's College for the Instruction and Education of Youth in the Learned Languages and Liberal Arts and Sciences; with power to elect their successors, to hold property, to appoint a president, fellows, professors, and tutors, and to confer degrees.

Because of its early relationship to Trinity Church and the grant to King's College of a valuable tract of land which was a portion of the Queen's Farm, there has always existed a close relationship between the religious life of the College and the Protestant Episcopal Church. The services at the College Chapel are in accordance with the liturgy of that church.

The Revolutionary War interrupted the active work of the institution, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

The University at the present time consists of Columbia College, the undergraduate college of liberal arts for men, which offers a program of studies leading to the degree of Bachelor of Arts; the School of Law, with courses leading to the degrees of Bachelor of Laws, Master of Laws, and Doctor of the Science of Law; the College of Physicians and Surgeons, with courses leading to the degrees of Doctor of Medicine, Doctor of Medical Science, and Master of Science in public health; the School of Engineering, with courses leading to the degrees of Bachelor of Science, the several engineering degrees, and the degree of Master of Science; the School of Architecture, with courses leading to the degrees of Bachelor of Architecture and Master of Science; the School of Journalism, with courses leading to the degree of Master of Science; the School of Business, with courses leading to the degrees of Bachelor of Science and Master of Science; the School of Dental and Oral Surgery, with courses leading to the degree of Doctor of Dental Surgery; the School of Library Service, with courses leading to the degrees of Bachelor of Science and Master of Science; the nonprofessional Graduate Faculties of Political Science, Philosophy, and Pure Science, with courses leading to the degrees of Master of Arts and Doctor of Philosophy. In addition to these schools and faculties, the University includes the independent corporations of Barnard College (1889), the undergraduate college for women, with courses leading to the degree of Bachelor of Arts; Teachers College (1898), with courses offered under the Faculty of Teachers College leading to the degrees of Bachelor of Science, Master of Arts, and Master of Science;

New College in Teachers College (1932), with courses leading to the degree of Bachelor of Science; the Advanced School of Education in Teachers College (1935), with programs of study leading to the degree of Doctor of Education, and under the Department of Educational Research of the Faculty of Philosophy and the Joint Committee on Graduate Instruction, to the degree of Doctor of Philosophy; the College of Pharmacy (1904), with courses leading to the degrees of Bachelor of Science and Doctor of Pharmacy; Bard College (1928), Annandale-on-Hudson, New York, an undergraduate college for men with courses leading to the degree of Bachelor of Arts; Union Theological Seminary (1928), whose faculty conducts certain University work leading to the degree of Master of Arts; and New York Post-Graduate Medical School (1931), which offers advanced work in medicine.

The University maintains three sessions during the year: the Winter Session, beginning the last Wednesday of September and ending the first Tuesday of February; the Spring Session, beginning the first Wednesday of February and ending the second Wednesday of June; and the Summer Session of six weeks' duration, beginning immediately after July 4. Through its system of University Extension the opportunity is offered to men and women to pursue subjects included in a liberal education, and to take courses toward a diploma or an academic degree.

Founding of Barnard College. — Barnard is the undergraduate college for women of Columbia University. In 1889 a group of men and women who wished to provide for women in New York City a college education fully equal to that offered to men, succeeded in obtaining the sanction of the Trustees of Columbia for the establishment of an affiliated woman's college. A charter was granted by the State of New York, and promises of subscriptions for the support of the college during the first four years of its existence were secured. Because President Frederick A. P. Barnard of Columbia College had for many years been an ardent advocate of the admission of women to Columbia, the founders of the new college gave it his name. With seven instructors selected from the teaching staff of Columbia and with fourteen regular and twenty-two special students, Barnard opened in the fall of 1889 in a rented house at 343 Madison Avenue.

Relation to the University. — In 1900 when the growth of the College had made inappropriate the original informal arrangement for instruction, an agreement was made between the Trustees of Columbia College and of Barnard College by which Barnard was incorporated in the educational system of the University. By the provisions of this agreement, the President of the University is *ex officio* President of Barnard College. Barnard professors are appointed by the University on the nomination of the Dean with the approval of the President and the Trustees, and rank as professors of the University. The College is represented on the University Council by its Dean and two elected representatives. The graduates of Barnard receive their degrees from Columbia, and these degrees are maintained as of equal value with corresponding degrees conferred upon the graduates of Columbia College. The University Library is open to women on the same terms as to men. Various opportunities in other schools of the University have also, through the relation of Barnard College to Columbia, been opened to Barnard students. On the other hand, Barnard has its separate corporate and financial organization, with its own Board of Trustees. It retains

its own internal administration, conducted by the Dean, who is appointed by the President with the advice and consent of the Trustees of Barnard. Its courses are determined and administered by its own Faculty, consisting of all professors who give instruction at Barnard.

Buildings and Grounds. — Since 1897 Barnard has occupied the land on Broadway between 119th and 120th Streets, just west of the main buildings of the University. In 1903 Milbank Quadrangle, extending from 119th to 116th Streets, was added through the gift of Mrs. A. A. Anderson. In 1936, largely through a gift from the General Education Board, the College purchased Riverside Quadrangle, between 119th and 120th Streets, Claremont Avenue and Riverside Drive. Milbank Hall and Brinckerhoff Hall, erected in 1896, the gifts respectively of Mrs. Anderson and Mrs. Van Wyck Brinckerhoff, and Fiske Hall, erected in 1898, the gift of Mrs. Josiah M. Fiske, are three adjoining buildings on 119th Street; they contain the administrative offices, lecture rooms, and laboratories. Brooks Hall, a Residence Hall at the southern end of the Quadrangle on 116th Street, was erected in 1907. A new residence hall adjoining Brooks Hall and known as Hewitt Hall was completed in 1925. Barnard Hall, given by Mr. Jacob H. Schiff and erected in 1917, is on Milbank Quadrangle near 117th Street; it contains the gymnasium, swimming-pool, lunchroom, reading room, doctors' and nurses' offices, and rooms for student organizations. Riverside Building, a former private house on Riverside Drive, provides temporarily a few offices and classrooms.

Financial Statement. — The College owns equipment, buildings, and grounds of an estimated value of over \$4,000,000, and holds productive funds providing a net income of about \$190,000.

Course of Study. — Barnard College offers to women a liberal course of undergraduate instruction of four years' duration, leading to the degree of Bachelor of Arts.

Students who wish two years only of collegiate work, in preparation for professional schools, may enter under the same conditions as those intending to complete the requirements for the Bachelor of Arts degree, and take, during the freshman and sophomore years, a program modified to meet the requirements of the professional school to which the transfer is to be made.

Under certain circumstances, Barnard students in the Bachelor of Arts course may, after three full years of work at Barnard College, receive permission to substitute the first year of an approved professional school for the senior year at college, and still obtain the Bachelor of Arts degree.

Academic Discipline. — The continuance of each student upon the rolls of the University, the receipt by her of academic credits, her graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel her registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and subject to the reserve powers of the President, in the Dean of each Faculty and the Director of the work of each Administrative Board:

Residence. — All students not residing with their parents are required to live in Brooks Hall or Hewitt Hall unless for reasons of weight they receive special permission to live with relatives. Applications for such permission,

accompanied by letters of approval from parents or guardians, should be made before August 1 to the Assistant to the Dean in charge of Social Affairs. Reservations for rooms outside, made without permission, will not be approved.

ADMISSION

To Columbia University in General. — A student who has fulfilled the preliminary qualifications for candidacy for a degree, certificate, or diploma in regular course is enrolled as a matriculated student of the University. Acceptance is based on the grounds of character and health as well as on the fulfillment of academic requirements. A period of regular attendance upon all stated academic exercises amounting to at least one academic year must be completed by every candidate for a degree.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

In exceptional circumstances a student not enrolled as a matriculated student may be admitted to the University as a nonmatriculated student, with permission to attend such courses of instruction as he or she is qualified to take, but not as a candidate for a degree, certificate, or diploma in regular course. Nonmatriculated students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students. Nonmatriculated students may receive a formal statement of the satisfactory completion of any course. (See page 30.)

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Admission to the several schools and colleges of Columbia University presupposes certain educational qualifications, but the possession of these qualifications does not entitle a candidate to admission unless his or her character and personality are acceptable to the University and unless he or she is physically fit to do the work which he or she desires to undertake. Satisfaction of the minimum requirements for admission to a school does not insure admission, particularly if the school be crowded.

To Barnard College in Particular. — Admission as a matriculated student to Barnard College is obtained by examination, or by a scholastic aptitude test, except that in suitable cases the certified credentials of degree-granting institutions may be accepted for the subjects or parts of subjects which they cover.

Except for reasons of weight, candidates for admission to the freshman class must be at least fifteen years of age at the time of matriculation; candidates for admission to advanced standing must be correspondingly older. Every candidate must, before admission, present a certificate of good moral character from her last teacher, or from some properly qualified citizen. Students from other colleges or universities must present certificates of honorable dismissal.

Information regarding admission may be obtained in person, or by mail, or telephone from the Secretary to the Committee on Admissions of Barnard College.

Preliminary Application for Admission. — Each student who plans to enter the College should file a preliminary application for admission with the Secretary to the Committee on Admissions at as early a date as possible, accompanied by a money order or draft for \$10 payable to Barnard College. This application fee will not be credited on term bill nor refunded for any cause. Other things being equal, early applications will receive the preference.

ADMISSION TO THE FRESHMAN CLASS

Subjects Required for Admission

The requirement for admission to the freshman class is proficiency in fifteen units of secondary school subjects, of which some are prescribed and the remainder elective, as specified below. The unit ordinarily implies the study of a subject for a time equivalent to five periods a week for one year. The term “elementary” as applied to a language implies two years’ study of that language.

	COUNTING IN UNITS
Candidates must offer: —	
¹ English	3
Mathematics, 1 year elementary algebra, 1 year plane geometry	2
Foreign languages, of which at least 3 must be in one language	5
Elective subjects to be selected from those accepted for admission, as listed below	5
	15

A student interested in mathematics or science, or a pre-medical course is strongly urged to study intermediate algebra in her preparatory course.

Elective Subjects

Candidates may offer any of the following subjects, not included among their prescribed subjects, without other restrictions than that to offer an intermediate or advanced subject will involve offering, either at the same time or earlier, the corresponding elementary subject:

	COUNTING IN UNITS
Bible	1
Biology (Advanced)	1
Botany	1
Chemistry	1
Drawing	1
French, elementary	2
French, intermediate	1
French, advanced	1
German, elementary	2

¹ The ordinary four-year secondary school course in English counts as three units.

German, intermediate	1
German, advanced	1
Greek, elementary	2 or 3
History, elementary	1, 2, 3, or 4
Italian, elementary	2
Italian, intermediate	1
Latin, elementary	2, 3, or 4
Mathematics, intermediate algebra	1
Mathematics, advanced (College)	$\frac{1}{2}$, 1, or $1\frac{1}{2}$
¹ Music Appreciation or Harmony	1
Physics	1
Physiography	1
Spanish, elementary	2
Spanish, intermediate	1
Spanish, advanced	1
Zoölogy	1

² Plans of Admission

Five plans of admission are open to properly qualified candidates for admission to Barnard College. In the first plan (Plan A) the candidate offers the College Entrance Board or Regents' examinations in 15 units of high school work; in the second plan (Plan B) she offers four comprehensive examinations; in the third plan (Plan C) she offers two examinations (not English) from the groups required in Plan B and the scholastic aptitude test at the end of the third year, and two, including English, at the end of the fourth year; in the fourth plan (Plan D), she offers an honor record in school and the scholastic aptitude test; the fifth plan is that of the Progressive Education Association.

All plans require:

- A. *The scholastic aptitude test for purposes of record.*
- B. *A satisfactory school record.*

In considering this, the standing of the school, the excellence of the candidate's work, and the subjects studied will be vital. She must have completed in an acceptable secondary school a course extending over at least four years, and covering the subjects required for admission. (See page 18.)

The candidate must have been graduated and must be recommended by her principal or headmistress. In schools in New York State in which Regents' examinations are given, the candidate must have passed the Regents' examinations with satisfactory grades.

In determining whether or not a school is satisfactory the procedure to be followed will be this:

¹ An examination in this subject will be given in September, but not in June.

² Candidates who find that examinations are fixed for days set apart for religious purposes by the church to which they belong, and who are prevented by conscientious scruples from attending such examinations, are requested to make application to the Committee on Admissions through the Registrar of Barnard College for equitable relief. It should be noted, however, that in case alternative opportunities for taking a given examination are statedly offered, as for instance the June and September entrance examinations, such students are expected to present themselves on the day which is not set apart as a holy day.

Schools within the territory of the New England Certificate Board will be acceptable, if on the accepted list of that board.

Similarly, schools within the territory of the Association of Colleges and Secondary Schools of Southern States or of the North Central Association of Colleges and Secondary Schools or the Association of the Middle Atlantic States and Maryland will be regarded as acceptable if on the approved list of these associations.

Schools outside the territory of any of these bodies will be requested to submit the names of leading colleges on whose accepted lists they do appear, and their acceptability will be determined for the time being upon the basis thus furnished. In case any school recommends students whose records prove to be consistently below the standards, the records of that school will no longer be considered satisfactory.

If a student's work in college should show her deficient in any entrance subject in which she has received credit, her credit in that subject will be cancelled.

C. Satisfactory evidence as to character and promise.

The candidate's qualities, mental and moral, as shown by her record in and out of school and the recommendations which she can submit will be important factors. Whenever possible, a personal interview will be required. In cases in which this is not possible a photograph must be submitted and the names of at least three responsible citizens must be given as references. *The Committee on Admissions is able to give little if any weight to letters of recommendation from persons outside the school of the candidate, unless asked for by the college.*

D. A satisfactory health record.

This will include a health history and the results of a health examination. These must be submitted on blanks furnished by the Secretary to the Committee on Admissions and approved by the Barnard College Physician before a student will be permitted to register.

A certificate from a physician showing vaccination within four years of entering college must be submitted with health report.

I. Plan A

Under this plan the following examinations in 15 units may be offered in partial fulfillment of the examination requirements for admission:

- (i) Those given by the College Entrance Examination Board.¹
- (ii) Those entrance examinations given by Columbia University.
- (iii) Examinations given in the high schools by the Education Department of the State of New York (Regents') to students who have satisfactorily completed certain courses in these high schools. In these examinations 75% will ordinarily be regarded as the lowest passing mark.

Except for reasons of weight examinations will be credited only if passed within twenty-nine months of the time the candidate expects to begin her college work.

¹ The numerical ratings of the Board are accepted by the College. The passing mark, however, is fixed by the Committee on Admissions.

NOTE. — An intermediate or advanced language examination will not give a student credit for the elementary or intermediate work unless a mark of at least 85% is obtained in the Regents' examination.

An intermediate algebra examination will not give a student credit for elementary algebra unless a mark of at least 85% is obtained in the Regents' examination.

Since the Regents' Board no longer gives examinations in advanced botany and advanced zoölogy, all Regents' candidates offering those subjects for admission will be required to take the College Board or Columbia University examinations in the subjects.

(iv) With special permission, certificates of entrance examinations taken in good faith for admission to other institutions. Such certificates are accepted only in so far as they cover specifically, and by name, subjects or lettered (or numbered) parts of a subject which are accepted for admission as stated on page 18.

II. Plan B

In this plan a candidate must furnish school reports covering the entire record of subjects and grades for four years previous to college entrance, and a confidential estimate of character, personality, and promise of usefulness from the school principal. These should be sent to the Secretary to the Committee on Admissions, if possible, before January 15 of the year in which the examinations are to be taken. The Committee on Admissions must give its permission, based on these reports, before the applicant may take the examinations.

She must take these entrance examinations in not less than four subjects at one and the same series of examinations, the subjects in question to include all those prescribed for admission and the examinations to be the comprehensive examinations. These subjects must be the following, unless for reasons of weight the Committee on Admissions allows substitution for 1 or 3:

1. English.
2. A foreign language.
3. Mathematics, comprehensive or in part, or science.
4. A fourth subject, designated by the applicant from the subjects accepted for entrance. This choice will be subject to the approval of the Committee on Admissions, which may at its discretion substitute another subject.

These four examinations must be taken at one time. Comprehensive examinations are held by the College Entrance Examination Board in June, and by Columbia University in September.

At least two examinations must cover more than two units each.

In each subject chosen for examination, the comprehensive examination covering all the units offered by the candidate for admission must be taken.

A student, if admitted, will be admitted without conditions. If she fails of admission, she will not be considered for admission again under Plan B until after the interval of one academic year. She may, however, present herself at the next series of examinations as a candidate for admission under the plan which offers examinations in all fifteen units. The results of a candidate's examinations will stand to her credit for twenty-nine months.

A candidate who wishes to enter by Plan B may, if she desires, test herself by taking preliminary examinations — not to be credited toward admission — before she presents herself for the four comprehensive examinations which she plans to count.

III. Plan C

Candidates under this plan may take at the end of the junior year the scholastic aptitude test and two examinations (not English) from the groups now required under Plan B. On the basis of the results of these examinations provisional acceptance may be given. Final acceptance will depend upon the results of the remaining two examinations which are to be taken at the end of the senior year, and upon the school records of that year.

IV. Plan D

When this plan of admission is chosen the candidate must offer a four years' honor record from high or preparatory school and the scholastic aptitude test.

This examination is designed to select the students qualified by general ability to profit by a college course.

The examinations will be given June 19, 1937, at 9 A.M. for candidates for admission in the following September. It will also be given on September 14 at 2 P.M.

V. Progressive Education Association Plan

Barnard College is coöperating with the selected group of schools in the experiment in secondary education inaugurated by the Progressive Education Association. For the period of the experiment students with promising records from these schools will be eligible to be considered for admission on the basis of the school records and tests administered by the schools together with the Scholastic Aptitude Test of the College Entrance Examination Board.

Examinations

Time. — Examinations for admission to Barnard College are held each year in June and September. In 1937 they will be held June 19–26 and September 13–17, and in 1938, June 18–25.

Place. — In June the entrance examinations will be conducted by the College Entrance Examination Board, of which Columbia University is a member, at Barnard College, and at a large number of widely distributed points. A list of these points will be published by the Board (431 West 117th Street, New York, N. Y.) about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

In September, 1937, the entrance examinations of Barnard College will be conducted by the Columbia University Committee on Admissions, and will be held only at the College.

Application for Examination. — Every candidate for examination is required to file an application in advance for *each series of examinations* which she wishes to take. For the examinations in June, 1937, the application must be filed with

the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y.

Applications for examination in the United States east of the Mississippi River or on the Mississippi River, must be filed on or before May 31. Applications for examination elsewhere in the United States or in Canada must be filed on or before May 24, and applications for examination at points outside of the United States and Canada except in Asia must be filed on or before May 10. Requests for blank forms of application should be addressed to the Secretary of the Board.

When the candidate has failed to obtain the required blank form of application for examination (other than the scholastic aptitude test), the usual examination fee will be accepted, if the fee arrives not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination center at which she wishes to present herself, and a list of all the subjects in which she may have occasion to take the Board's examinations.

A candidate for a competitive scholarship to be awarded on the basis of the June examinations must, in her application to the Secretary of the College Entrance Examination Board, mention the scholarship for which she is competing. For the examinations in September, 1937, applications must be filed with the Registrar of Barnard College on or before August 30. Requests for blank forms of application should be addressed to the Secretary to the Committee on Admissions of Barnard College.

Candidates who wish to use four examinations for admission (see page 21) should, if possible, submit their records to the Secretary to the Committee on Admissions before January 15 of the year in which the examinations are to be taken.

Examination Fee. — *The fee for each series of examinations is \$10 for the College Entrance Board and \$10 for the Columbia University examinations.*

Every application for examination in June must be accompanied by a fee of \$10 in the form of a postal order, express order, or draft on New York to the order of the *College Entrance Examination Board* for all candidates. Applications received later than the dates named will be accepted where it is possible to arrange for the examination of the candidates concerned, but only upon the payment of an additional fee of \$5.

Examinations will be held in accordance with the time (standard or daylight-saving) observed in the local public schools. Candidates who are to take the scholastic aptitude test should report to the supervisor of examinations on Saturday, June 19, at 8.45 A.M. No candidate will be admitted to the scholastic aptitude test after 9.00 A.M. At centers where daylight-saving time is observed candidates should report at 7.45 A.M., standard time, and the test will begin at 8.00 A.M., standard time.

Every application for examination in September must be accompanied by a fee of \$10 in the form of a postal order, express order, or draft on New York to the order of *Barnard College*.

If a late application is accepted, a second fee of \$5 must be paid.

The receipt for the examination fee must be carefully preserved by the candidate and shown (not surrendered) to the supervisor in charge of the examinations as evidence of her right to be admitted to the same.

The fee for examination in June cannot be returned unless the request for the cancellation of the application and the return of the fee reaches the Secretary of the Board on or before June 14, 1937. The fee for examination in September cannot be returned unless the request for the cancellation of the application and the return of the fee reaches the Registrar of Barnard College on or before September 9, 1937.

Comprehensive Examinations. — The College Entrance Examination Board also holds a set of comprehensive examinations designed primarily to meet the needs of candidates wishing to enter by Plan B (see page 21). Candidates for admission by Plan A may take the comprehensive examination in the whole of any subject offered instead of the “ordinary” examinations in the separate parts of that subject.

The applications and examination fees of candidates desiring to take the Board’s comprehensive examinations are subject to the same general rules as the applications and fees of other candidates for examination (see page 22).

Schedule of Examinations. — Candidates taking the examinations must report to the supervisor, in the examination room, fifteen minutes in advance of the first examination which they are to attend.

JUNE EXAMINATIONS

June 19–26, 1937

If a candidate should find it necessary to take more than one examination on the same half-day, the examinations must follow immediately after one another, with an interval, if the candidate request it, not exceeding ten minutes. During this brief interval, the candidate will not be permitted to leave the examination room or to communicate with any one except the supervisor in charge of the examinations.

Saturday, June 19

Scholastic Aptitude Test (3 hours)	9.00
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Monday, June 21

English (3 hours)	9.00
¹ German (3 hours)	2.00
¹ Spanish (3 hours)	2.00

Tuesday, June 22

Mathematics A — Elementary Algebra (3 hours)	9.00
Mathematics A 1 — Algebra to Quadratics (2 hours)	9.00
Mathematics A 2 — Quadratics and Beyond (2 hours)	9.00
Mathematics Alpha (3 hours)	9.00
Mathematics Beta (3 hours)	9.00
Mathematics Gamma (4 hours)	9.00
Mathematics B — Advanced Algebra (2 hours)	2.00
Mathematics E — Plane Trigonometry (2 hours)	2.00

¹ The comprehensive examinations in French, German, and Spanish will make provision for Cp. 2, Cp. 3, Cp. 4.

ENTRANCE EXAMINATIONS

25

Wednesday, June 23

¹ French (3 hours)	9.00
Physics — Elementary (3 hours)	2.00
Physical Sciences — Two Years (3 hours)	2.00

Thursday, June 24

Latin (3 hours)	9.00
Mathematics C — Plane Geometry (3 hours)	2.00
Mathematics D — Solid Geometry (2 hours)	2.00
Mathematics CD — Plane and Solid Geometry (3 hours)	2.00

Friday, June 25

History A — Ancient (2 hours)	9.00
History B — European (2 hours)	9.00
History C — English (2 hours)	9.00
History D — American (2 hours)	9.00
Chemistry (3 hours)	2.00

Saturday, June 26

Biology — Elementary (3 hours)	9.00
Biological Sciences — Two Years (3 hours)	9.00
Greek (3 hours)	2.00

SEPTEMBER EXAMINATIONS

September 13–17, 1937

Monday, September 13

Comprehensive English (3 hours)	9.00
¹ French (3 hours)	2.00

Tuesday, September 14

Comprehensive Latin (3 hours)	9.00
Scholastic Aptitude Test	2.00

Wednesday, September 15

Mathematics C (3 hours)	9.00
Mathematics A — Elementary Algebra, complete (3 hours)	9.00
Comprehensive Elementary Mathematics (3 hours)	9.00
¹ German (3 hours)	2.00
² Italian (3 hours)	2.00
¹ Spanish (3 hours)	2.00

¹ The comprehensive examinations in French, German, and Spanish will make provision for Cp. 2, Cp. 3, Cp. 4.

² The comprehensive examinations in Italian will make provision for Italian Cp. 2, Cp. 3.

Thursday, September 16

Chemistry (2 hours)	9.00
Physics (2 hours)	9.00
Physiography (2 hours)	9.00
Mathematics D — Solid Geometry (2 hours)	2.00
Mathematics B — Advanced Algebra (2 hours)	2.00
Mathematics E — Plane Trigonometry (2 hours)	2.00
Greek (3 hours)	2.00

Friday, September 17

History A — Ancient (2 hours)	9.00
History B — European (2 hours)	9.00
History C — English (2 hours)	9.00
History D — American (2 hours)	9.00
¹ English Bible (2 hours)	2.00
Biology (2 hours)	2.00
¹ Botany (2 hours)	2.00
Zoölogy (2 hours)	2.00
¹ Drawing (2 hours)	2.00
¹ Music a — Music Appreciation (2 hours)	2.00
¹ Music b — Harmony (2 hours)	2.00

Substitutes for the Board or Barnard Examinations. — Barnard College accepts in lieu of its entrance examinations or those of the College Entrance Examination Board ² no credentials of any sort except (1) the examination reports of the Education Department of the State of New York, showing that the candidate has completed certain courses in a high school in the State of New York and that she has passed the examinations of the Education Department in these subjects ³; (2) with special permission, the official reports of entrance examinations taken in good faith for admission to other colleges; and (3) certain courses of the Summer Session of Columbia University. These credentials are accepted only in so far as they cover specifically, and by name, subjects or lettered (or numbered) parts of a subject which are accepted for admission to Barnard College, and state in percentages the grades received in the examinations in such subjects. Candidates must take the regular entrance examinations in the subjects in which their credentials are not deemed adequate. Except for reasons of weight, credentials are not accepted as covering subjects passed more than twenty-nine months previous to the date at which the candidate intends to begin residence. No certificates from preparatory schools or from preparatory departments of colleges will be accepted in lieu of entrance examinations.

In order to be credited toward entrance, the candidate's credentials, together

¹ A September examination will not be given in this subject unless a request is filed at least one month before the examination date.

² The numerical ratings of the Board are accepted by the College, but the passing mark is fixed by the Committee on Admissions.

³ 75% will ordinarily be regarded as the lowest passing mark in these examinations.

with (1) the statement of the extent and character of her preparation in each subject offered (see School Record, page 19), and (2) any certificates for science laboratory work or drawings that she has to present, must be in the hands of the Committee on Admissions on or before August 1 for admission in September.

State Education Department Examinations. — Candidates for admission on the credentials of the New York State Education Department should notify the Secretary to the Committee on Admissions of Barnard College of their intention on or before August 1 for admission in September, in order that sufficient time may be allowed for obtaining their records from the Education Department.

In these examinations 75% will ordinarily be regarded as the lowest passing mark. These examinations will be subject to the same rules as to series and dates as other examinations (see page 20).

The subjects for which the State credentials are accepted and their value in Barnard entrance units are as follows:

	BARNARD UNITS
¹ Biology (Advanced)	1
¹ Chemistry	1
English, Four Years	3
French, elementary, Two Years	2
French, intermediate, Three Years	3
French, advanced, Four Years	4
German, elementary, Two Years	2
German, intermediate, Three Years	3
German, advanced, Four Years	4
Greek, elementary, Two Years	2
Greek, intermediate, Three Years	3

History:

¹ Ancient or Major Sequence, Course A	1
¹ Modern, Major Sequence, Course B	1
¹ American and Civics or Major Sequence, Course C	1
Italian, elementary, Two Years	2
Italian, intermediate, Three Years	3

Latin (for candidates offering 4 units):

Latin, Three Years	3
Latin, Fourth Year	1

Latin (for candidates offering 2 or 3 units):

Second Year Latin	2
Latin, Three Years or Fourth Year	3 or 1

¹ Credit cannot be secured in these subjects unless the following requirements are met:
 (a) In all natural sciences teachers' certificates of laboratory work must be presented. In doubtful cases the candidate will be required to submit a certified laboratory notebook.
 (b) In history only the five-count electives will be accepted.

Mathematics:

Algebra	1
Intermediate Algebra	1
Plane Geometry	1
Solid Geometry	1/2
Plane Trigonometry	1/2
Advanced Algebra	1/2
¹ Physics	1
¹ Physiography	1
Spanish, elementary, Two Years	2
Spanish, intermediate, Three Years	3
Spanish, advanced, Four Years	4

Entrance Conditions and Probation. — A candidate for admission who has not secured the prescribed fifteen units may be admitted to the freshman class with conditions, if, in the judgment of the Committee on Admissions, she is qualified to undertake the work of the class. General deficiency in any prescribed subject will disqualify for admission. Except for reasons of weight, a student who has failed to complete a course in a good high school or preparatory school will not be admitted with conditions.

All entrance conditions must be removed within one calendar year from the date of entrance.

A student admitted conditionally or by credentials from another college or from the State Education Department will be held under probation during the first winter or spring session of residence. By Tuesday of the week preceding the Thanksgiving holidays, each department in which students on probation attend will make to the Committee on Instruction a special report of progress in the case of every such student. The Dean, on the recommendation of the Committee on Instruction, will as soon as practicable after the mid-year examinations decide as to each student on probation whether she shall be admitted to full standing, have her period of probation extended, or be dropped from the roll.

The mark C, B, or A, obtained at the end of the first winter or spring session of residence, in a course of a higher grade than the entrance requirement, will be regarded as removing an entrance condition in that subject, unless the condition was incurred in a part of the subject not directly involved in the work of the college course. To remove a condition by college work a mark of at least thirty-five per cent must have been obtained in an entrance examination. Any condition not so removed must be satisfied by a regular entrance examination for which an application must be filed and a fee paid precisely as required of a candidate for admission. (Regarding removal of entrance conditions by summer session work, see the Office of Admissions.)

¹ Credit cannot be secured in these subjects unless the following requirement is met:
(a) In all natural sciences teachers' certificates of laboratory work must be presented. In doubtful cases the candidate will be required to submit a certified laboratory notebook.

ADMISSION TO ADVANCED STANDING

Students who have satisfactorily completed at least a year of work at an acceptable college, scientific school, or foreign institution of equivalent grade may be admitted with such advanced credit as their previous records may warrant. In general a candidate with a good record transferring to Barnard from a similar college of equal standing will receive at Barnard a year's credit for a year's work at the institution from which she comes.

Each candidate should send to the Committee on Admissions with her application blank a catalogue of her college plainly marked, showing entrance credit and courses taken. These should be accompanied by an official transcript of her college record, including entrance credit. If for any reason a student cannot obtain an official record until the end of the term, she may substitute her report cards. One or the other must be in the hands of the Committee on Admissions before the Committee on Transfers can estimate her standing in Barnard College. The Committee on Transfers may give an applicant a tentative estimate of the time she will be expected to spend at Barnard in order to secure a degree and the prescribed work she will be asked to do. Final determination of these matters lies with the Committee on Transfers, which reserves the right of re-adjusting credit at any time. These reports should be received by the Committee on Admissions by July 1 for admission in September and by December 1 for admission in February; otherwise action on the case may be delayed until just before the opening of college. Final action on admission depends upon (1) the honorable dismissal, (2) the certificate of good moral character from an authorized representative of her college, and (3) the certificate of sound health.

No applicant may enter the senior class as a candidate for a degree after October 15 in any year, and no student will receive a degree who has resided less than two full sessions (winter or spring) at Barnard College. (See also paragraph 6, page 43.)

Candidates for admission to the freshman class offering by examination more than the required fifteen units may be given credit toward a degree for this extra work, on a basis to be determined by the Committee on Admissions, provided that not more than 18 of the 120 points for a degree may be gained in this way.

A candidate for admission with advanced standing from a junior college may be asked to take some form of examination for admission (the scholastic aptitude test, if her records warrant it), and if admitted will be allowed to enter courses that succeed her junior college courses. No definite credit for her junior college work can be assigned until after she has had an opportunity to establish a good record at Barnard.

ADMISSION AS SPECIAL STUDENTS

Women who wish, without working toward a degree, to make a serious study of some subject or group of subjects, may, with the approval of the Committee on Admissions, enter Barnard as nonmatriculants. They need not pass formal entrance examinations, but they must submit satisfactory credentials in regard to character and qualifications for the courses they wish to take.

Candidates for admission as nonmatriculants must be mature. They may not pursue merely elementary courses. They must not, within ten months of the time of application, have been rejected or become deficient as regular students.

They will be held to the observance of the same regulations as to attendance, examination in course, proficiency and deficiency as regular students. They are also subject to the usual health regulations (see page 56).

They are entitled to a formal statement as to the satisfactory completion of the work that they have taken. They may, in view of a good record in college courses, be transferred by the Committee on Instruction to the matriculated basis as candidates for a degree.

DEFINITION OF REQUIREMENTS

Specimens of the question papers set by the College Entrance Examination Board are published annually in book form by Ginn and Company, Boston, Mass.

For a detailed statement of the requirements the reader is referred to the pamphlet containing definitions of the requirements in each subject, published by the College Entrance Examination Board, 431 West 117th Street, New York. This pamphlet, which will be mailed by the Board on receipt of twenty-five cents in stamps, also contains lists of suitable laboratory experiments in chemistry and physics.

A statement of the requirements in the English Bible, musical appreciation, and harmony may be obtained on application to the Secretary of the University.

NOTEBOOKS, DRAWINGS, ETC.

Each candidate must present at the time of examination a certificate from her teacher certifying that the laboratory requirements in each science offered by the candidate have been complied with. This regulation applies also to drawing. In all doubtful cases the candidate will be required to submit a laboratory notebook. *This regulation applies to candidates using College Entrance Examination Board, Columbia University, State Education Department, or any other entrance examinations.*

Blank forms may be obtained on application to the Secretary to the Committee on Admissions of the College.

REGISTRATION

Registration. — Before attending any University exercise each student shall comply with the regulations in regard to registration and payment of fees. She shall present herself in person at the office of the Registrar and shall there file a registration blank giving such information as may be required for the College records.

Every new student shall also at the time of registration file a statement of the courses which the Committee on Instruction has authorized her to pursue. Students already in college shall give notice of their choice of elective courses for each session to the Registrar on dates to be announced from time to time by the

Committee on Students' Programs. Failure to file a program during the period announced by the Committee on Students' Programs will cause the student to incur a fee of \$10 for this privilege. Students in college who defer filing programs from April until after Commencement will incur a fee of \$20.

In September the office of the Registrar will be open for registration on Friday, Monday and Tuesday, September 17, 20, 21, 1937. New students may register also on Wednesday, September 22, 1937.

In February, students who have been in attendance during the winter session and who have filed in December programs which have been approved may complete their registration during specified hours on Friday, January 28, and on Monday, January 31, 1938.

Registration after 4 P.M. on Monday, January 31, 1938, by a student whose program has been approved will be considered a late registration and will involve the payment of a late registration fee.

Students whose programs have not been approved for one reason or another by the Committee on Instruction will be required to defer registration until Tuesday, February 1, 1938.

All new students entering in February will register on Tuesday, February 1, 1938.

Students registering late are charged an additional fee of \$5 and are held accountable for absences thus incurred.

Each student who holds a scholarship shall present her scholarship certificate to the Bursar *at the time of registration*.

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registering in Barnard shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the Dean.

Withdrawal. — An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the College, but no student under the age of twenty-one years shall be entitled to a discharge without the assent of her parent or guardian furnished in writing to the Dean. Students withdrawing are required to notify the Registrar. (See also *Rebates*, page 32.)

GENERAL STATEMENT REGARDING FEES AND THE REGULATIONS GOVERNING THEIR PAYMENT

All fees are payable semi-annually in advance at the Bursar's office, and no reduction is made for late registration. Registration is not complete until registration, tuition, and laboratory fees are paid. Inasmuch as the registration fee is charged for the actual process of fulfilling all the requirements of the Registrar's office, it is incurred when the student receives her bill and must be paid even if she withdraws before attending classes. Payment of fees after the last day of registration (see Academic Calendar) imposes automatically the statutory charge of \$5.00 for this privilege. In special cases, for reasons of weight, the payment of one half the tuition fee for the session (\$190.00) may be deferred until approximately mid-term — November 5 or March 11 — provided that per-

mission has been obtained from the Bursar **before** the first day set for registration. Application for the privilege of deferred payment on or after the first day of registration will be considered late payment and as such will be subject to a **\$5.00 late payment fee**. In every case where the privilege of deferred payment has been granted, this payment must be made on the due date or an additional \$5.00 late payment fee will be incurred.

Under the regulations, the privileges of the College are not available to any student delinquent in the payment of her fees.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

Checks in payment of all fees, including those for charges in the residence halls, should read "Pay to the order of Barnard College," and should be made out for the exact amount of the payment. As change will not be given on checks, no check which is made out for more than the correct amount will be accepted.

Rebates. — Tuition fees alone are subject to rebate. Rebates may be allowed

- 1. For courses discontinued on or before the second Saturday of each session. After that date no fees will be returned for any course which the student may for any reason discontinue.
- 2. For total withdrawal from the college, when a pro rata return of fees may be authorized by the Registrar. When such a rebate is allowed it **must be applied for in writing at the time of withdrawal** and will be reckoned from the date upon which the Registrar receives notice from the student.

FEES

Application fee, payable when application for admission is filed . . . \$ 10.00
This fee is not credited on the bill and is never refunded. It should not be confused with the registration fee, payable each session (see below).

Fees payable each session for a matriculated student enrolled

- 1. For 10 points or more:
Registration fee \$ 10.00
This fee is due each session when the Registrar issues the bill to the student and is never refunded.
Tuition fee \$190.00
Student activities fee \$ 3.00
For all regular and unclassified students for each winter or spring session or any part thereof

\$203.00
- 2. For 9 points or less:
Registration fee see above
Tuition fee at the rate of \$14.00 per point for academic work and \$5.00 each for English D and physical education, if these are taken.
Student activities fee see above

Fees payable each session for a nonmatriculated student:

Registration fee see above
Tuition fee at the rate of \$14.00 per point for academic work and \$5.00 each for English D and physical education, if these are taken, with a maximum fee of \$190.00 per session.

Additional fees are charged for the following:

Tuition for courses in applied music:

Courses 67, 68, 69, 70, 79, 80, 83a, 84a, each course	\$100.00
Courses 83b, 84b, each course	\$ 60.00
Courses 83c, 84c, each course	\$ 40.00
Courses 93, 94, Section I, advanced students, each course . . .	\$160.00
Section II, beginners, each course	\$ 55.00

Tuition for courses in studio work in fine arts:

Drawing and painting u1, u2, each course	\$ 25.00
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Tuition for professional and extension courses that are *not* taken for credit and for certain University classes that, with the permission of the Committee on Instruction, are taken for credit toward the Barnard degree. This varies with the course taken.

Late registration (see page 31) \$ 5.00

Privilege for filing program late \$ 10.00

For students in college who fail to file their programs for the coming session within the period announced for that purpose by the Committee on Students' Programs. Students in college who defer filing programs for the winter session until after Commencement are charged \$20.00 for that privilege.

Examinations, payable in each case before the examination is held:

For entrance (see page 23) for each series \$ 10.00

For late application \$ 5.00

For each and every deficiency or special examination \$ 3.00

(A special or deficiency examination is one taken at any time other than at the conclusion of a course actually attended, whether taken prior or subsequent to admission.)

For the degree \$ 20.00

This fee is never refunded. It must be paid on or before April 15 by candidates for the degree in June or in September and by January 1 by candidates for the degree in February.

Deposits for the use of apparatus, material, and the like are required in

Chemistry 63, 64, each course \$ 10.00

Chemistry 41, 42, 65, 66, each course \$ 12.50

Chemistry 42a, 105, 106, 145, 146, 157, 158, each course . . . \$ 15.00

Zoölogy 152 \$ 15.00

NOTE. — Every financial obligation to the College incurred by the student must be met by January 1 of the winter session or by May 1 of the spring session, if the student is to be permitted to take her examinations and receive credit for the session's work.

FEES OF STATE SCHOLARS

Each State Scholar should file at the office of the Bursar *on the day of registration* the notice which she has received from Albany stating that a State Scholarship has been awarded to her. On the basis of this official notice she is entitled to a credit of \$50 a session.

A State Scholarship Certificate for each of these students is then sent from

Albany to the Bursar, who records all necessary information and forwards the certificate to its owner. This certificate need not be presented again at the Bursar's office.

DEPOSITORY FOR STUDENTS' FUNDS

For the convenience and protection of students while in residence at the University, the Bursar of Columbia University in Room 310 University Hall is prepared to receive funds for deposit, subject to the printed rules and regulations, copies of which may be obtained at his office upon request. There is no charge for this service other than the exchange on out-of-town checks and drafts.

Personal checks will not be cashed by the University or credit allowed until the money has actually been received from the bank on which the check is drawn. However, checks, drafts, and money orders may be deposited for collection. Students should provide themselves with travelers' checks to cover their immediate expenses, and are advised to open an account with the University on registration.

DORMITORY FEES

Deposit	\$15.00
Payable in advance to secure assignment of room. One half of this deposit is credited each session on payment of rent. The deposit is forfeited if the applicant withdraws after September 1, or, in the case of an applicant entering at the beginning of the spring session, after January 15.	
Board	\$300.00
Payable in two equal instalments in advance, on or before taking possession of room, and on February 1 ¹	
Rent ²	
Payable in two equal instalments in advance, on or before taking possession of room, and on February 1 ¹	
Single rooms in Brooks Hall (a few with private bath) ³	\$175-575
Double rooms in Brooks Hall, for each student	\$160-235
Single rooms in Hewitt Hall	\$175-300
Double rooms in Hewitt Hall, for each student	\$235
Suites in Hewitt Hall (two rooms and bath), for each student .	\$375-575
<i>Various scholarships ranging in value from \$50.00 to \$700.00 are available for students in need of assistance (see page 45).</i>	

ESTIMATED NECESSARY EXPENSES

- Board and room, \$460-875 for the academic year.
- Registration fee, \$20.
- Annual tuition fee, \$380.

¹ In special cases, upon application to the Bursar, the payment of one half the rent and board for a session may be deferred until mid-term — November 5 or March 11.
² Beginning with the academic year 1938-1939 the charge for every room in Brooks and Hewitt Halls will be \$300 for the academic year.
³ There are a few rooms at \$175 available for Freshmen who hold scholarships.

- Student activities fee, \$6.
- Text-books, \$20 up each year.
- Gymnasium costume, averaging \$6.50.
- Final examination for the degree, \$20.

THE PROGRAM OF STUDIES

Upon satisfactory completion of a program arranged according to the regulations described below (pages 35-39), the student is recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Diplomas are issued only at Commencement and in February and in October upon the completion of the requirements for the degree.

The requirement for graduation is 120 points, exclusive of the prescribed work in physical education. The term point usually signifies the satisfactory completion of work requiring attendance at class, one hour, or in the laboratory, two hours, a week during a winter or spring session.

I. Program of Studies for the Degree of Bachelor of Arts

In constructing the present curriculum the Faculty was guided by the following general principles:

1. Each student should possess certain fundamental tools, useful for successful work in any field, — that is, a command of written and spoken English, the ability to read at sight with ease at least one foreign language, a healthy body, and a knowledge of hygiene.
2. Beyond those needed to give these fundamental tools it is not desirable to prescribe any specific courses or subjects.
3. Each student should be required to concentrate her work sufficiently to gain a fairly thorough knowledge of one subject.
4. Each student should be required to distribute her work sufficiently to gain some insight into the other main divisions of human thought.

To carry out these general principles, the following specific requirements and regulations were adopted:

Specific Prescriptions

English A1-A2	6 points
English D1-D2, D3-D4	1 point
Hygiene A1-A2	2 points
Physical Education A, B, C, and D.	

Ability to read at sight with ease one of the following languages: French, or German, or Greek, or Latin.¹ This requirement should be satisfied as early as possible in the college course.

All other work is elective but must include

A major subject of 28 points

The major must be comprised of work of not less than grade C in some one subject in some one department. It must meet the requirements laid down

¹ In individual cases by special permission of the Committee on Instruction, Italian or Spanish may be substituted for one of these languages.

by the department concerned and announced at the head of the departmental statements on pages 60 ff.

- Courses amounting to not less than 14 points from *each* of the following groups other than the one in which the major lies. These may be elected without restriction excepting that in
- (a) Group I, the 14 points may include (1) not more than one elementary course in ancient foreign languages and (2) no first-year course in modern foreign languages.
 - (b) Group II, 8 of the 14 points must be in one of the following laboratory sciences: botany, chemistry, geology, physics, experimental psychology, zoölogy.

Group I. Languages, Literatures, and other Fine Arts:

Ancient Art, Anthropology (Courses 5, 6, 7, 8, 10, 107, 108), Classical Literatures (in translation), Comparative Linguistics, English, Esthetics (Philosophy 41-42, 43, 44, 45, 46, 47-48, 51-52, 53-54, 145-146), Fine Arts, French, German, Greek, Italian, Latin, Music, Romance Philology, Spanish.

Group II. Mathematics and Natural Sciences:

Anthropology (Courses 3, 4), Astronomy, Botany, Chemistry, Geography, Geology, Logic (Philosophy 3-4), Mathematics, Mineralogy, Physics, Psychology (experimental, developmental, abnormal, applied, differential, contemporary problems, mental measurements and comparative), Statistics (Economics 18), Zoölogy.

Group III. Social Sciences:

Anthropology (Courses 1, 2, 51, 52, 109, 110), Archaeology, Classical Civilization, Economics, Geography, Government, History, Philosophy, Psychology (introductory, child, motivation, social, conduct, mental adjustments and systematic), Religion, Sociology, Statistics (Economics 17).

II. Program of Studies for the Degree of Bachelor of Arts with the Certificate in Science or Mathematics

Candidates for the degree of Bachelor of Arts who desire to specialize in the natural sciences or in mathematics may elect the foregoing program of studies with the modifications given below. For the satisfactory completion of the specified requirements they will receive on graduation a certificate which will indicate the nature of the program of studies pursued.

This program of studies is the same as the foregoing program, except in the following specific respects:

A major subject of at least 28 points of not less than grade C in one of the following natural sciences: astronomy, botany, chemistry, geography, geology, mineralogy, physics, experimental psychology, and zoölogy, or in mathematics, and

Two minor subjects of at least 12 points each, one of which must be allied to the major, both to be chosen from the foregoing list. As a minor, geog-

raphy, geology, and mineralogy may count as one subject. Anthropology may also be taken as a minor subject.

Additional grouped work in science, or in mathematics, or in science and mathematics, so as to make a total of at least 60 points in science, or in science and mathematics.

DEGREE WITH HONORABLE MENTION

Degrees with honorable mention will be awarded to students in the regular course who have had honorable mention for general excellence at the end of each academic year.

THE HONORS COURSE LEADING TO THE DEGREE OF BACHELOR OF ARTS WITH HONORS IN SPECIAL SUBJECTS

The Honors Course has been arranged for exceptionally well-equipped students with a pronounced interest in some one subject. It offers to these an opportunity to do more intensive and better work than the ordinary students, to have more chance for independent study, and at the same time more individual conferences with the professors in their major department. It gives them also the opportunity of attaining, by successful completion of this course, high academic honor.

Entrance into the course is optional with those students who are eligible.

Eligibility. — Students who have completed 60 points of work with an average standing of 2.90 (see page 45) are eligible as candidates for the Honors Course. The names of students who would be eligible for the course on this basis, *providing the quality of work is sustained until the end of their sophomore year*, will be posted during the third week in March. Students who wish to apply for the course should do so to the Committee on Honors by April 10. Admission to the course will be subject to the approval of the department in which the student elects to work.

In special cases permission will be given to enter the course in the middle of the junior year, providing similar conditions of eligibility are met.

Eligibility will be based only on the work taken at Barnard College. Summer session courses may count to bring the student's points up to the 60 required for admission to the course, but they will *not* count in the average standing.

Ordinarily students who cannot complete their 60 points until the deficiency examinations in September will not be eligible for admission to the Honors Course until the following February.

A student whose name is not on the eligibility list may be recommended as a candidate for the Honors Course by any department in which she is doing work of conspicuous excellence and promise. Subject to the approval of the Committee on Honors, such a student shall be admitted to the Honors Course.

Admission. — Every department will, at its discretion, assign some work to be done by its candidates during the summer. The result of this work and the students' records as a whole will be scrutinized by the department before a decision is made as to the admission of the candidates. The department may require a qualifying examination or some other form of test.

Supervision. — After a student has been admitted to this course the appropriate department takes charge of her work and, subject to the approval of the Faculty,

arranges the curriculum to be pursued for a degree with honors in her special subject.

Prescription. — Students in the Honors Course are not exempt from the completion of the group requirements, including a laboratory science. Where the completion of the group requirements cannot be taken in the junior year parallel to the Honors Course, the student should try to satisfy them in summer session courses. This is possible in practically every subject, excepting the laboratory science. Any deficiency in group requirements must be satisfied before the opening of the senior year. Students seriously deficient in the group requirements will not be admitted to the Honors Course.

All honor students are required to pass by the end of their junior year the regular foreign language test required of other students, in French, or German, or Greek, or Latin. They are also required to pass a reading test in another foreign language, to be set by the department in charge of their work before the mid-year examination period of their senior year.

Students failing to meet these requirements are dropped from the Honors Course.

During the junior year students admitted to the Honors Course are held on probation, and at the end of the year if they have not done thoroughly satisfactory work, the Committee on Honors will recommend that they return to the usual course of study.

During the junior year honor students will be expected to take the regular examinations in the courses for which they are registered and to receive grades in their work, the understanding being that examinations may be omitted only in courses that are elected as optional.

In the senior year all regular examinations in the major subject are omitted, examinations in other subjects being at the option of the major department, and at the end of the year the student takes a comprehensive examination in the subject. Students who pass the comprehensive examination with high standing are recommended for the degree with honors in their respective subjects. If the examination is passed only moderately well, the student will receive the degree but without honors.

Exemption. — Honor students are exempt from the technical requirements of 120 points, from the usual regulation of class attendance, which in their cases will be under the direction of their major departments, and, in their senior year only, from the customary system of grading. Honor students are not exempt from the supervision of the Department of Physical Education.

For special requirements see the various departmental statements, pages 61 ff.

PROGRAM FOR STUDENTS ADMITTED BY TRANSFER FROM OTHER COLLEGES

Students transferring to Barnard College with sufficiently good records from other colleges will be held to the requirements for the degree outlined on pages 35–37. They shall not be exempt from the major or the laboratory science or the language requirement. Such students, if sufficiently able, are eligible for the special Honors Course described on pages 37–38. Such students are also eligible for transfer to professional schools under the regulations described on page 39.

The administration of the foregoing provision will be in accordance with the following principles and rules:

1. Such students should have completed at entrance or at other colleges the equivalent of the entrance requirements to Barnard College, as may be determined by the University Committee on Admissions.

2. In general, students who have been accepted by the Committee on Admissions for entrance by transfer to Barnard College will be admitted to the class to which their previous entrance and college records entitle them. The Committee on Transfers will determine, in conference with the student, in view of her previous academic record, her experience and maturity, her intellectual interests and professional plans, the program of work that she shall take. In certain cases a year of probation may be required before the status of the student is exactly fixed.

PREPARATION FOR PROFESSIONAL SCHOOLS

Students who intend to transfer to professional schools are of two classes, those who leave Barnard at the end of the sophomore year, without candidacy for the Bachelor of Arts degree, and those who at the end of the junior year wish to take advantage of the 'combined course,' counting the first year of an approved professional school in place of the senior year at Barnard.

Students intending to transfer to professional schools without candidacy for the degree of Bachelor of Arts are required to take English A and D, Hygiene A, physical education throughout their stay at Barnard, and such other courses as are appropriate in preparation for the professional school to which the transfer is to be made. (See Architecture, Business, Law, Medicine, Nursing, pages 40 ff.)

Students with a good record may, by special permission of the Committee on Instruction, count the first year of an approved professional school in place of the senior year at Barnard. To be eligible for this 'combined course' a student must complete at Barnard, before transferring to the professional school, 90 points of academic work including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction.

Students transferring to Barnard from other institutions will be granted this privilege of a 'combined course' only if they have an unusually good record, and in no case will the permission of the Committee on Instruction be given until after the student has completed at least one full year of work in Barnard College. (See Architecture, Business, Law, Medicine, pages 40 ff.)

COURSES IN THE GRADUATE FACULTIES OPEN TO BARNARD STUDENTS

Certain graduate courses in Columbia University under the Faculties of Political Science, Philosophy, and Pure Science which are listed in the Barnard Announcement are open, with the consent of the department concerned and the Committee on Instruction, to specially qualified seniors. In these courses special arrangements are made for the supervision of the work of undergraduates.

Since graduate work is on an entirely different basis of credit from undergraduate work, it is rarely possible for a student in Barnard College to take any graduate courses for which these special arrangements have not been made. Seniors of unusual ability may, however, be permitted in special cases to elect not more than two graduate courses.

Graduate courses, when approved by the Committee on Instruction, may be counted by an undergraduate toward the Bachelor's degree. But any undergraduate student in the regular course in Barnard College who, in the final session of her candidacy for a Bachelor's degree, is within 12 points of that degree may, with the approval of the appropriate Deans, register for graduate courses with a view to offering such courses in fulfillment of the requirements for residence for a higher degree, provided, however, that she shall not receive graduate credit in excess of the difference between 15 points and the number of points that she needed to fulfill the requirements for her Bachelor's degree at the beginning of such session.

This regulation does not apply to a student in the Honors Course who must count toward the honors degree all courses attended in any part of the University prior to taking that degree.

For full information concerning the content of the courses, students are referred to the appropriate University announcements mentioned at the end of the departmental statements given below.

PROFESSIONAL SCHOOLS FOR WHICH BARNARD STUDENTS MAY PREPARE

Architecture

After two years of collegiate work in Barnard, amounting to at least 60 points' credit (exclusive of physical education) and including English A and D, Hygiene A, two years of college French, mathematics through solid geometry, plane trigonometry, advanced algebra, analytic geometry, and such other courses as may be recommended by the School of Architecture, a student may transfer without examination to the School of Architecture of Columbia University and become a candidate for the degree of Bachelor of Architecture. The course in the School of Architecture leading to this degree generally requires four years for its completion. As only a limited number of students can be accommodated, fulfillment of the requirements does not guarantee admission.

For full information, students are referred to the Announcement of the School of Architecture.

Business

After two years of collegiate work in Barnard, amounting to at least 60 points' credit (exclusive of physical education), including English D and Hygiene A, two years of English, two years of French or German or Spanish or Italian, and one year of economics, a student may transfer without examination to the School of Business of Columbia University and become a candidate for the degree of Bachelor of Science. It is also recommended that a year of work in economic geography be completed before transfer. The course in the School of Business

leading to this degree generally requires for its completion two years in addition to the two years of collegiate work in Barnard College.

For full information, students are referred to the Announcement of the School of Business.

Journalism

The School of Journalism now requires an A.B. degree for admission. It advises students applying for admission to the School of Journalism to concentrate in government, economics, and history during their undergraduate years.

Law

After three years of collegiate work of good grade amounting to at least 90 points (exclusive of physical education) and including English A and D and Hygiene A and satisfactory courses in economics, in English and in American history and American government and political history, a student may be recommended by the Faculty of Barnard College for transfer without examination (except a capacity test) to the School of Law of Columbia University to become a candidate for the degree of Bachelor of Laws. The course leading to this degree requires for its completion three years of study in addition to the three years of collegiate work at Barnard College.

While the foregoing represents the minimum requirement for admission, a collegiate course of four years leading to a Baccalaureate degree is considered the most desirable preparation. Since only a limited number of specially qualified students will be admitted, the fulfillment of the requirements for entrance does not guarantee admission. The selection will be based on the student's capacity for law as determined by the capacity test and her entire college record.

For full information, students are referred to the Announcement of the School of Law.

Library Science

The School of Library Service requires a liberal arts degree for admission. A student preparing to enter the School should not fail to acquire a reading knowledge of French and German and should so plan her course that it will constitute an introduction to many fields of knowledge rather than a heavy concentration in any one field.

Medicine

After three years of collegiate work of good grade at Barnard amounting to at least 94 points (exclusive of physical education), and including English D and Hygiene A, one year of physics based on entrance physics, one year of inorganic chemistry based on college entrance chemistry, one-half year of organic chemistry, one year of biology, one year of English, a student may be recommended by the Faculty of Barnard College for transfer without examination to the College of Physicians and Surgeons of Columbia University, to become a candidate for the degree of Doctor of Medicine. The course leading to this degree requires for its completion four years of study in the College of Physicians and Surgeons.

While the above courses represent the minimum requirements for admission, the authorities of the College of Physicians and Surgeons state that a

collegiate course of four years leading to a Baccalaureate degree is considered the most desirable preparation. In fact very few students with less than four years' pre-medical training can be admitted for the reason that there is an excess of applicants who have already received their Bachelor's degree. Because only a limited number of students can be accommodated, fulfillment of the requirements for entrance does not guarantee admission. The entire pre-medical record of each student is carefully examined in order that those who are adjudged most capable of meeting the exacting demands of the course and the profession of medicine may be selected.

For full information, students are referred to the Announcement of the College of Physicians and Surgeons.

Nursing

The School of Nursing offers a three-year course leading to the degree of B.S. in Nursing. A minimum of two years of college work is required for admission. Students who hold an acceptable degree may obtain permission to complete the course in less than three years.

— Teachers College

Certain courses in the history and theory of education and in general methods for secondary schools are given by Teachers College to regular students in Barnard College and may be credited toward the Bachelor's degree. They are described in the departmental statement on page 70.

Regarding the requirements for certification for teaching in secondary schools in New York State or for the position of "teacher in training" in the New York City high schools, students are advised to consult the Occupation Bureau at Barnard College.

GENERAL REGULATIONS REGARDING THE PROGRAM OF STUDIES, EXAMINATIONS IN COURSE, CREDIT AND ADVANCEMENT

Election of Courses. — Before final choice of elective studies, all students should consult their advisers (see page 46), the Committee on Instruction, and, in case of any doubt, the instructors in charge of particular courses as well. Electives must be chosen on some consistent plan. Conflicts between courses falling at the same hours are to be avoided by careful study of the Scheme of Attendance at the end of this volume, which has been drawn up with a view to making possible for everyone the selection of a reasonable number of harmonious elective courses that shall not conflict in hours with each other or with prescribed courses. It often happens that some of the courses of one department form valuable supplements to certain courses of another, so that combinations of work under two or more departments are very desirable. In all such cases the best selections can be made only after consultation with officers of one or more of the departments concerned. This applies particularly to the major subject (see page 35).

The following regulations should also be borne in mind:

1. No courses other than those specified in the Announcement may be taken except by students specially qualified to pursue them with advantage and with the consent of the Committee on Instruction.

2. No combination of courses amounting to less than 12 or more than 16 points may be made in any winter or in any spring session without the consent of the Committee on Instruction.

3. No credit will be given for a one-hour course, unless it is taken in connection with and as a supplement to a cognate course.

4. No more than four hours of class work, or its equivalent in laboratory work, or seven hours of class work and laboratory work combined, may be taken on the same day.

5. Tuesday at 1.10 P.M. is the Assembly hour. Academic meetings at which attendance is required are often held at this time, and all students are requested to keep it free for this purpose.

6. Students entering with advanced standing from other colleges will be required to take 12 points of their major at Barnard.

7. Of the points required for the degree, at least 30 must be taken while the student is registered in Barnard College, of which 30 points at least half should be taken during the senior year.

8. The election of courses under the graduate Faculties of Political Science, Philosophy, and Pure Science is restricted to specially qualified seniors and requires the consent of the head of the department concerned at Barnard, and of the Committee on Instruction. (For further details see page 39.)

9. The election of specific courses in a summer session at Columbia University or elsewhere must be approved by the Committee on Instruction of Barnard College. Except by special permission of the Committee on Instruction, granted for reasons of weight, no student whose average standing lies below 2.50 (see page 45) during the preceding academic year will be allowed to count more than 6 points of work taken in a summer session. In no case may more than three courses or 8 points of work be counted in a summer session in any one year. No summer session course that is passed with a grade below C will be credited toward a Barnard degree.

If a student has taken work in a summer session without the previous approval of the Committee on Instruction, she should submit a report of her summer work within a month of her return to college, either in the winter or in the spring session. Otherwise no credit toward the Barnard degree will be allowed for the work that was taken.

10. Specific courses in University Extension may be credited toward the Bachelor's degree under the following regulations:

(a) The election of extension courses must be approved by the Committee on Instruction and by the Director of University Extension.

(b) Students will not be allowed to exceed a total of 16 points, including the points of extension courses, at one time, save with the special permission of the Committee on Instruction, for reasons of weight.

(c) Students desiring to count these courses toward the degree must obtain in them a grade of at least C.

(d) Courses that are not taken for credit toward the Barnard degree will not be covered by the regular tuition fees but must be paid for over and above those fees.

Time Limit for Counting Work Toward the Degree. — All requirements for a degree must be fulfilled by the candidate within six years from the time of her first matriculation as a freshman in college, whether at Barnard or elsewhere; within four and a half years from similar matriculation as a sophomore; within three years from similar matriculation as a junior; and within one and a half years from similar matriculation as a senior. If the candidate fails to satisfy the requirements within the time here specified, she is to lose credit for all the points gained by her toward the degree unless, in individual cases, the Faculty shall otherwise direct.

The Foreign Language Requirements. — The foreign language tests are held in January or February, in May, and in September, and are open to students according to regulations announced from time to time by the Committee on Instruction. If a student who entered Barnard as a freshman or a sophomore, and who in February or in September is within a year and a summer session (40 to 42 points) of completing the work for her degree, fails to pass the mid-year or September test she will be suspended until the foreign language requirement is satisfied unless, by special ruling, the Committee on Instruction permits her to remain for one session on probation with a limited program, and the suspension of credit until the test is passed.

A transfer student will be urged to try the test on arrival. If a student who enters Barnard by transfer as a junior or senior, and at mid-year or in September is within a year and a summer session (40 to 42 points) of completing the work for her degree fails to pass, she will be ranked as unclassified with no promise as to when she may expect to complete the requirements for the degree.

Entering freshmen who are well grounded in their foreign language are advised to try the test on arrival.

Change of Program. — No change of program, either by adding or by dropping a course, may be made by a student without the written consent of the Committee on Instruction. Except on the initiative of the departments or of the Committee on Instruction, such change will not be allowed *after the first Monday after the opening of either the winter or the spring session*. (See also paragraph on fees, page 32.)

Absences. — All students are expected to attend regularly and promptly all the exercises in the courses for which they are registered. Any considerable amount of absence or tardiness will result in the lowering of a student's mark or the loss of one or more points of credit. At the end of each session each student may file in the Registrar's office, on blanks provided for that purpose, a list of her absences and tardinesses with the reasons therefor. After considering these excuses and the reports from the instructors, the Committee on Instruction will adjust marks and credits.

Stated Examinations. — Two series of examinations are held every year, one in January and the other in May. These are the only stated examinations. In 1938, the mid-year examinations begin on Monday, January 17, the final examinations on Monday, May 16.

Special Examinations. — Special examinations are held as follows: in the week beginning on the second Monday of the spring session of each year, and within the two weeks preceding the opening of the College in the fall.

Such examinations must be taken in one of the three periods for special or deficiency examinations immediately following the stated examination that was missed. They are open, by permission of the Committee on Instruction, to students who have been absent, for imperative reasons, from the stated examination in any course, provided their term work has been satisfactory.

In all cases application for permission to take a special examination must be made in writing.

For each and every examination taken at any time other than the stated examination period immediately following the conclusion of the course involved, a fee must be paid to the Bursar before the student is admitted to the examination (see page 33).

Grades and Credit. — The student's performance in a course is rated according to the following grades: A, excellent; B, good; C, fair; D, poor; F, failure. The mark *Incomplete* is given only when the student has obtained, in advance, the permission of the instructor to postpone for a short time the submission of certain outstanding term work which must be made up before a specific grade can be reported. Under the regulations of the Faculty, outstanding work that is not completed within three weeks after the end of the session automatically becomes an F.

Standing in college is determined by a valuation of each academic point according to the mark received. Each point with a mark of A counts 4; B, 3; C, 2; D, 1; F (or abs or inc until satisfied), 0. The average mark per point constitutes the student's rating.

No student may count for promotion from any class to the next higher class more than 6 points of D work or may be credited with more than 6 points of D work during her senior year. In case more than four years is required for her degree, not more than 24 points of D work altogether may count for the degree. Of several courses in which a student is marked D she may choose the ones to be counted. No work of grade D may count in the major of 28 points.

At the end of the sophomore year especially, the records of all students will be carefully scrutinized and only those who have done a considerable amount of good work and shown promise of future development will be permitted to continue in college and pursue the more advanced specialized study of the junior and senior years.

Unless a student does a reasonable amount of work of a grade better than C, she may be advised to withdraw from the College.

Additional Credit for High Standing. — At the end of the winter and of the spring session, when all the reports are filed in the Registrar's office, additional credit for high standing is given as follows:

The mark A in courses aggregating 6 points of work (no course to be counted twice) entitles the student to one point of extra credit, provided she has satisfactorily completed all the work of the session, and has not fallen below the mark B in any course.

Classification of Students. — Matriculated students whose record as to entrance conditions and the completion of prescribed work is satisfactory to the

Committee on Instruction are classified as follows:

Freshmen, those who have completed less than 24 points of academic work.

Sophomores, those who have completed 24 points.

Juniors, those who have completed 54 points.

Seniors, those who have completed 86 points.

In all cases the requirements for promotion must be met in full before the beginning of the winter session.

A student who fails to meet the requirements for advancement from one class to another may, with the consent of the Committee on Instruction, remain in college and repeat the course or courses in which her deficiency exists, or, in the case of elective courses, other courses equivalent thereto in time. She may not, however, register as a nonmatriculant or as a special student.

Should a student fail of advancement in two successive years, she shall be permanently dismissed from the College, unless, for reasons of weight, the Committee on Instruction shall otherwise determine.

ADVICE TO STUDENTS

The Dean is always glad to confer with a student regarding any matters that may be of interest to her. Individual instructors may also be consulted at any time by the student regarding her work in their classes.

Before planning her program for the coming year, every student should consult a member of the teaching staff, according to detailed regulations to be announced from time to time by the Committee on Instruction.

Not later than the spring session of her sophomore year, a student should consult the Occupation Bureau regarding opportunities in different occupations which may interest her and the prerequisites thereto.

SCHOLARSHIPS, GRANTS-IN-AID, LOANS

Purpose. — The College desires that no student of exceptional ability shall be kept away from Barnard because her family has only moderate means. To aid students financially, there are Scholarships, Grants-in-Aid, a Loan Fund (see page 52) and provisions in the Occupation Bureau (see page 58) for enabling girls to earn a little money toward their personal expenses.

Scholarships. — Scholarships are awarded annually on a competitive basis by the Faculty Committee on Scholarships to full-time students of high scholarly ability, excellent character and promise of future usefulness, who are in need of aid.

For resident students, — that is, those who live in Brooks or Hewitt Hall, — they range in value from \$150 to \$700 a year.

For students who do not live at the College, they range in value from \$75 to \$300, except for one New York City scholarship valued at \$400 every third year.

If a student fail to maintain an average of at least B in her work, or if for any other reason she show herself an unsatisfactory scholar, she may forfeit her scholarship and be ineligible for reelection the following term.

Grants-in-Aid. — Grants-in-Aid are awarded by the Faculty Committee on Scholarships to deserving and needy students to help them to enter or to remain in college. No student whose record falls below an average of C will ordinarily be considered eligible for such a grant.

Residence Grants. — Residence grants are awarded by the Faculty Committee on Scholarships to enable students to live in the residence halls. They range in value from \$25 to \$250.

Applications from Students in College. — On or before the first of March of each year all applications for scholarships, grants-in-aid, and residence grants must be filed at the Dean's office upon special blanks to be obtained there.

Applications from Entering Students. — On or before the first of March applications for scholarships and grants-in-aid should be in the hands of the Committee on Admissions. Blanks for this purpose may be obtained in the Office of Admissions.

Except for a very few special scholarships, students should not apply for scholarships by name, but should merely indicate the minimum sum needed.

Scholarship Awards. — Applicants will be informed by the Chairman of the Committee on Scholarships as soon as awards have been made. Applicants receiving awards are requested to inform the Dean's office *immediately*, in writing, if they do not intend to use the funds awarded.

Holders of scholarships, grants-in-aid, and residence grants are requested to file with the Bursar *on the day of registration* a scholarship certificate to be obtained from the Secretary to the Dean.

COMPETITIVE ENTRANCE SCHOLARSHIPS

Brooklyn Scholarships (\$150 each). — Founded in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students resident in Brooklyn and prepared in a Brooklyn school.

Carpentier Residence Scholarships (\$400 to \$700 each). — Founded in 1919 with a bequest from the late Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity.

Lucille Pulitzer Scholarships (\$300 to \$700 each). — Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer.

Three are restricted to students from the City of New York; eight are for resident students.

Jessie Kaufmann Scholarship. — The income of a fund of \$4,000. Founded in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann. Awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

Martha T. Fiske Scholarship. — The income of a fund of \$5,000. Founded in 1911 by Miss Anna E. Smith, in memory of her sister, Mrs. Martha T. Fiske-Collord. It is awarded, on the basis of scholarly ability and general character, to some deserving candidate not a resident of New York City or its suburbs.

GENERAL SCHOLARSHIPS

Ella Weed Scholarship. — The income of a fund of \$3,000. Founded in 1895 by the pupils of Miss Anne Brown's School in memory of Miss Ella Weed, who was chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence.

Veltin School Scholarship. — The income of a fund of \$3,000. Founded in 1905 by the alumnae of Mlle. Veltin's School.

Jennie B. Clarkson Scholarship. — The income of a fund of \$3,000. Founded in 1898 by the late Mrs. W. R. Clarkson.

Emily James Smith Scholarship. — The income of a fund of \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Miss Smith, then Dean of Barnard College.

Anna E. Barnard Scholarship. — The income of a fund of \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Mrs. John G. Barnard.

Brearley School Scholarship. — The income of a fund of \$3,000. Founded in 1899 by pupils and former pupils of the Brearley School.

Eliza Taylor Chisholm Memorial Scholarship. — The income of a fund of \$3,000. Founded in 1901 by the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend.

Graham School Scholarship. — The income of a fund of \$3,000. Founded in 1907 by the Graham Alumnae Association.

Mrs. Donald McLean Scholarship. — The income of a fund of \$3,000. Founded in 1906 by the New York City Chapter of the Daughters of the American Revolution. It is awarded, in conference with a representative of the Chapter, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.

Emma Hertzog Scholarship. — The income of a fund of \$3,000. Founded in 1904 by gifts from residents of Yonkers, N. Y. It is awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school who is entering Barnard College.

Mrs. Henry Clarke Coe Scholarship. — The income of a fund of \$3,600. Founded in 1910 by the National Society of New England Women, now the New York City Colony of the National Society. It is awarded, on the nomination of the chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage, and after the award is once made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman.

Eleonora Kinnicutt Scholarship. — The income of a fund of \$5,000. Founded in 1911 in memory of Mrs. Francis P. Kinnicutt, who was a Trustee of Barnard College. It is awarded at the end of the freshman year to a student of exception-

ally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1939 and 1942.

Emma A. Tillotson Scholarship. — The income of a fund of \$5,000. Founded in 1910 by the late Mrs. Luther G. Tillotson. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1937 and 1940.

William Moir Scholarships. — The income of a fund of \$10,000. Founded in 1912 by the late Mrs. William Moir, in memory of her husband.

Mary Barstow Pope Scholarship. — The income of a fund of \$4,000. Founded in 1913 in memory of Mary Barstow Pope, sometime teacher in Miss Chapin's School, by her friends, her fellow-teachers, and her pupils. It is open to any undergraduate of Barnard College for the whole or any part of her course, and is awarded on the nomination of a self-perpetuating committee representing the founders.

Charles E. Bogert Memorial Scholarship, and Anna Shippen Young Bogert Memorial Scholarship. — The income of a fund of \$10,000. Founded in 1913 with a bequest from the late Annie P. Burgess. They are awarded to worthy and deserving students of good Christian character who are unable to pay their own expenses.

Martha Ornstein Brenner Scholarship. — The income of a fund of \$4,000. Founded in 1915 by her friends in memory of Martha Ornstein Brenner, 1899.

Barnard School Alumnae Scholarship. — The income of a fund of \$4,000. Founded in 1916 by the alumnae of the Barnard School for Girls. It may be awarded to a student in any class, preference being given to nominees of the school.

Fanny I. Helmuth Scholarship (at least \$262). — Established on a temporary basis by the Daughters of Holland Dames in honor of Fanny I. Helmuth. It is awarded in conference with a representative of the society to a student of Dutch descent who is in need of aid.

Anna M. Sandham Scholarship. — The income of a fund of \$10,000. Founded in 1922 with a bequest from the late Anna M. Sandham.

Eleanor Butler Sanders Scholarship. — The income of a fund of \$10,000. Founded in 1922 with a bequest from the late Henry M. Sanders.

Scholarship in English. — The income of a fund of \$5,000. Founded in 1920 by an anonymous donor. It is awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who stands out as particularly deserving of aid, the scholarship may be used, at the discretion of the Faculty Committee on Scholarships, to assist a student majoring in some other subject.

Lucille Pulitzer Supplementary Scholarships (\$50 each). — Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They are awarded to worthy and needy students, and may be used to supplement larger scholarships

or themselves combined into scholarships of \$100 or more. The money is applicable to tuition fees, residence fees, or, in special cases, general outside expenses.

Augusta Larned Scholarship. — The income of a fund of \$10,000. Founded in 1924 with a bequest from the late Augusta Larned.

Mary E. Larkin Joline Scholarship. — With an annual value of \$300. Founded in 1927 with a bequest from the late Mary E. Larkin Joline. It is awarded to a student who is specializing in music.

Charlotte Louise Jackson Scholarship. — The income of a fund of \$5,000. Founded in 1928 with a bequest from the late Fannie A. Jackson. It is awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers.

Alice Marie-Louise Brett Scholarship. — The income of a fund of \$10,000. Founded in 1930 with a bequest from the late Philip E. Brett in memory of his daughter, Alice Marie-Louise Brett, of the Class of 1915. It is awarded during her senior year to an able and deserving student specializing in French.

Schmitt-Kanefent Scholarship. — The income of a fund of \$7,000. Founded in 1931 with a bequest from the late Catherine Schmitt.

Helen Elizabeth Vosburgh Scholarship. — The income of a fund of \$5,000. Founded in 1934 with a bequest from the late Katherine G. Lippke in memory of Helen Elizabeth Vosburgh of the Class of 1925. In awarding this scholarship, preference is given to a self-supporting student.

Willina Barrick Memorial Scholarship. — The income of a fund of \$5,000. Founded in 1936 by the College Club of Jersey City as a memorial to Willina Barrick, 1900. It is awarded on the nomination of the Club to a graduate of a Jersey City secondary school entering Barnard College.

SPECIAL FUNDS FOR THE AID OF NEEDY AND DESERVING STUDENTS

Arthur Brooks Fund. — A fund of \$5,000 given in 1897 by Miss Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence.

Fiske Scholarship Fund. — A fund of \$5,000, given by the late Mrs. Martha T. Fiske-Collord, the income of which is placed at the disposal of the Dean of Barnard College.

George W. Smith Scholarship Fund. — A fund of \$5,000, given in 1906 by the late Mrs. Martha T. Fiske-Collord as a memorial to Mr. George W. Smith, who was a Trustee of Barnard College. The income of the fund is placed at the disposal of the Dean of the College.

Mary Gertrude Edson Aldrich Scholarship Fund. — A fund of \$1,000, given by Mrs. James Herman Aldrich. The income is used to assist in her senior year a student who has shown in her college life the moral qualities which go to the making of fine womanhood.

Scholarship Fund. — A fund of \$9,930 established by general subscription through the Scholarship Committee of the Board of Trustees.

Carpentier Scholarship Fund. — A fund of \$200,000, the bequest of the late Horace W. Carpentier. The income remaining after the payment of the Carpentier Residence Scholarships described on page 46 is placed at the disposal of the Dean for distribution in scholarships of varying amounts, according to the needs of deserving students.

Caroline Church Murray Fund. — A fund of \$5,000 established in 1918 by Mr. George Welwood Murray in memory of Caroline Church Murray. The income is placed at the disposal of the Dean to be used in aid of needy and deserving students.

Irma Alexander Goldfrank Fund. — A fund of \$2,105, established in 1919 by the friends of the late Irma Alexander Goldfrank, 1908. The income is placed at the disposal of the Dean to be used in aid of needy and deserving students.

Alumnae Scholarship Fund. — A fund of approximately \$3,010 established by the Class of 1912 at its tenth reunion, and subsequently increased by a legacy from the estate of Julia Ludlow Young, an alumna. The income is to be used to help needy and deserving students.

Thomas F. Clark Students' Loan Fund. — A fund of \$100,000, the bequest of the late Mrs. Fanny Foster Clark. The income is to be used to aid needy and deserving students.

Edna Henry Bennett Memorial Scholarship Fund. — A fund of \$1,640, established in 1927 by friends of the late Edna Henry Bennett, 1915, Lecturer in Zoölogy. The income is to be awarded by the Department of Zoölogy to Barnard students for work at the Marine Biological Laboratory, Woods Hole, Massachusetts.

Class of 1919 Decennial Fund. — A fund of \$5,000, established in 1929 as a 10th reunion gift by the Class of 1919, to endow a room in Hewitt Hall for the use of a deserving and needy student.

Class of 1921 Scholarship Fund. — A fund of \$2,500, established in 1931 as a 10th reunion gift by the Class of 1921. The income is to be used to help needy and deserving students.

Eva-Lena Miller Booth Scholarship Fund. — A fund of \$1,000, given in 1932 by the New York City Chapter of the Daughters of the American Revolution as a memorial to the late Mrs. Eva-Lena Miller Booth. The income is to be used to help needy and deserving students.

Alpha Zeta Club Scholarship Fund. — A fund of \$2,000, established in 1936 by the Alpha Zeta Club. The income is awarded to a member of the graduating class for graduate work or, at the discretion of the Dean, to an undergraduate for undergraduate work.

STUDENTS' LOAN FUND

A Students' Loan Fund of \$12,000 is maintained by the Associate Alumnae. From this fund loans are made at a low rate of interest to students in need of financial assistance, whether for college tuition and residence fees or for outside expenses. The loans and interest are to be repaid within seven years after graduation. Under the rules of the Students' Loan Committee, no money may be granted to a freshman in her first winter or spring session; it may be granted in the second only in exceptional cases. The chairman of the Committee, to whom inquiries should be addressed, is Miss Helen Crosby, Room 2401, 330 Fourth Avenue, New York City.

The operation of this fund as a loan fund, as distinct from the special scholarship funds already mentioned, makes it possible to keep the capital in continuous use by successive generations of students. While the Committee does not deem it advisable to lend a very large amount to any one student, it has not found that loans of moderate size prove a burden on the borrowers. The Committee desires to make the fund as helpful as possible and wishes therefore to have students in need of assistance apply to it freely.

The Noel Morris Memorial Student Loan Fund in the amount of \$2,500, established in 1937 by Alice V. Morris II of the Class of 1936 in memory of her brother, is available for loans to students for undergraduate and graduate work. German majors, and students wishing to study abroad, particularly in Germany, will be given preference, and the loans may be of substantial size. The Fund is administered by the Student Loan Fund Committee of the Associate Alumnae of Barnard College, with the co-operation of the head of the German Department, on the same conditions as to guarantee, interest, and repayment as those required for loans from the Alumnae Fund described above, although some of those conditions may be modified in special cases. Application should be made to Professor Braun, head of the German Department.

GRADUATE FELLOWSHIPS

George Welwood Murray Graduate Fellowship. — The income of a fund of \$15,000. Established by Mr. George Welwood Murray in 1930. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. This fellowship is to be awarded each year as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. This fellowship is not to be applied for but is to be awarded each year as soon as possible after the mid-year examinations. Students graduating in February are to be eligible, as well as those graduating in June.

Grace Potter Rice Fellowship. — Established in 1935 by Mr. Winthrop Merton Rice in memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 until 1934. It is of an annual value of \$600.

The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing. This fellowship is awarded each year as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. This fellowship is not to be applied for, but is awarded each year as soon as possible after the mid-year examinations. Students who have graduated in February are eligible, as well as those who are to graduate in June.

The Herbert Maule Richards Fund. — Established by the Barnard Botanical Club, former students and friends in memory of Professor Richards, an officer of the Department of Botany from 1896 to 1928, and Chairman from 1897 to 1928. The income from this fund will be granted from time to time to further botanical research, under the direction of an approved institution, to a student or alumna of Barnard College.

MARGARET MEYER GRADUATE SCHOLARSHIP

An annual graduate scholarship of a value of \$75, established by Mrs. Alfred Meyer in 1923 in memory of Margaret Meyer Cohen of the Class of 1915, awarded annually to a member of the graduating class and providing a course of training in secretarial work.

PRIZES

The following prizes are awarded annually, on the recommendation of the appropriate departments of the Faculty of Barnard College, in accordance with the special conditions named below. No prize will be awarded to any student who falls below grade C in any course during the year in which she is a competitor.

Herrman Botanical Prize. — A prize consisting of the income of a fund of \$1,000, founded by the late Mrs. Esther Herrman, is awarded annually to the most proficient undergraduate student in botany.

Kohn Mathematical Prize. — A prize consisting of the income of a fund of \$1,000, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

The Jenny A. Gerard Medal. — The Jenny A. Gerard Gold Medal, given in 1908 by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student of American birth in Barnard College who is most proficient in American colonial history.

Speranza Prize in Italian. — A prize consisting of the income of a fund of \$1,000, founded by a former student in memory of the late Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard from 1890 until 1911, is awarded annually to a student in Barnard College for excellence in Italian.

von Wahl Prize. — A prize consisting of the income of a fund of \$1,300, founded in 1915 in memory of Constance von Wahl, 1912, President of the Undergraduate Association, is awarded annually to a student for excellence in zoölogy, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded.

Caroline Gallup Reed Prize. — A prize consisting of the income of a fund of \$1,000, founded in 1916 by Mrs. William Barclay Parsons in memory of her mother, Mrs. Sylvanus Reed, for the recognition of special study in the subject of the origin of Christianity and early church history, is awarded annually to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by May 1. A syllabus of the period to be covered may be obtained from the Chaplain of the University.

Jean Willard Tatlock Memorial Prize. — A prize consisting of the income of a fund of \$1,250, founded in 1917 by her friends in memory of Jean Willard Tatlock, 1895, is awarded annually to the undergraduate student most proficient in Latin.

The Helen Prince Memorial Prize. — A prize consisting of the income of \$1,200, founded in 1921 by Mr. Julius Prince in memory of his daughter, Helen C. Prince, of the Class of 1922, is awarded annually to an undergraduate student in Barnard College for excellence in dramatic composition.

Dean Prize in German. — A prize consisting of the income of \$1,000, one-fifth of a fund of \$5,000 established in 1925 by Mr. Edward D. Adams for the promotion of the study of German language and literature in Barnard College, is awarded annually to that member of the senior class at graduation who has throughout her course done the best work in German language and literature.

Frank Gilbert Bryson Memorial Prize. — A prize consisting of the income of a fund of \$3,000, founded in 1931 with a bequest from the late Ella Fitzgerald Bryson, of the Class of 1894, in memory of Frank Gilbert Bryson, is awarded annually to a member of the graduating class who has given conspicuous evidence of unselfishness during her college course.

The following prizes of Columbia University are by their terms open to students of Barnard College:

Bennett Prize. — A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Baccalaureate degree who pursue courses amounting to six hours a week in the School of Political Science. The subjects for the essay to be handed in May 1, 1938 are: 1. "The President's Cabinet as an Advisory Body." 2. "Government Propaganda." 3. "The Technique of Planning Government Activities."

The Bunner Medal. — The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded annually at Commence-

ment to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for the essay to be handed in May 1, 1938 is "The Social Background of Southern Fiction since 1920."

Earle Prize in Classics. — A prize of \$50, established in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, is open for annual competition to all candidates for the degree of Bachelor of Arts. It is awarded partly on the basis of a special examination, partly on the basis of consistently good work in the regular Greek and Latin courses. The special examination covers specified portions of Greek and Latin literature, sight reading in Greek and in Latin, and prose composition in Greek and in Latin. The special subjects for 1938 are: 1. Plato, *Crito*, on the basis of the edition by J. Adam (Pitt Press). 2. Ovid, *Fasti*, Book VI, on the basis of the edition by A. Sidgwick (Pitt Press).

For the award in 1938, the examination will be held in January. Students are urged to do much of their work for the examination during the preceding summer vacation.

McDonald Medal in Rumanian Studies. — A prize awarded annually at Commencement over a five-year period ending in 1939, for the best essay of from 4,000 to 6,000 words on an assigned topic in the history or contemporary development of Rumania. The contest is open to any student in the University, but the accepted rules and practices of historical research and writing must be observed. Essays must be submitted to the Secretary of the University by April 1. The subject for 1937-1938 is: "The History of Russo-Rumanian Relations."

The Caroline Phelps Stokes Prize. — The Caroline Phelps Stokes Prize of \$40 is awarded annually at Commencement to that student who, having been regularly enrolled in Columbia College or Barnard College or Teachers College as a candidate for an academic degree, for not less than two sessions, winter or spring, shall be deemed to have written the best essay upon an assigned topic bearing upon the rights of man. The subjects for the essay to be handed in May 1, 1938 are: 1. "The Meaning of Academic Freedom." 2. "The Exercise by Women of the Right to a Profession."

Greek Prizes. — Two prizes, aggregating \$100, are awarded annually at Commencement to those students passing the best entrance examination in three years of Greek combined with the subsequent curricular Greek in the freshman year.

RESIDENCE HALLS

Brooks Hall and Hewitt Hall (see page 16), the residence halls for Barnard College students, will open on Friday, September 17, 1937, and will close at 12 noon Friday, June 3, 1938. Candidates for admission or students who wish to secure accommodations in the halls during the week of the June entrance exam-

inations or the September entrance or deficiency examinations should make arrangements directly with the Assistant to the Dean in charge of Residence Halls, not later than June 1 or September 1, respectively.

Full information in regard to the situation and cost of rooms and the advance deposit is published in a separate pamphlet, to be had on application to the Assistant to the Dean in charge of Residence Halls. All correspondence regarding accommodations in the halls should be addressed to the Assistant to the Dean in charge of Residence Halls, Barnard College, New York, N. Y. All checks and money orders should be made payable to the order of Barnard College. For the dormitory fees see page 34.

The post-office address for resident students is Brooks Hall, 3001 Broadway, New York, N. Y.

For regulations in regard to the residence of students who do not live in Brooks Hall or in Hewitt Hall, see page 16.

The King's Crown Hotel, located at 420 West 116th Street, in close proximity to the University, is owned by the University and operated by the Knott Hotels' Corporation. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

HEALTH AND PHYSICAL EDUCATION

The University Medical Officer, Dr. William H. McCastline, the College Physician, Dr. Gulielma F. Alsop, and the Head of the Department of Physical Education, Professor Agnes R. Wayman, by means of lectures, personal advice, and a broad program of activity adapted to the needs and condition of the individual, endeavor to promote the health of the students. The sanitation of the College is under their supervision. Assistant physicians, two trained nurses, and six instructors work under their direction.

Barnard Hall contains a gymnasium, swimming pool, a room for "corrective" work, one for "remedial" work, and one for dancing. The students have also, on Milbank Quadrangle, tennis courts, tenikoit courts, an archery range and a practice field for games. The roof of the building is provided with equipment for "moderate" games for the students physically unable to take part in more strenuous activities. There are three additional tennis courts and golf cages on the Riverside Quadrangle. A rest room is reserved for the use of the students.

An all-year-round camp is maintained in Westchester Co., near Ossining, N. Y., on a 10-acre plot of wooded land. This camp was the gift of the Alumnae in 1933. It is administered by a committee representing the Athletic Association, the Department of Physical Education, the Academic Faculty and the Alumnae. It furnishes an ideal opportunity for life and activity in the open as well as for the practice and learning of camp crafts.

A physical and medical examination is required of each student upon entrance, at the end of the first year, and just before graduation. A motor ability test and a swimming test are also given upon entrance. Frequent medical inspections are given each student. These examinations and tests are made the basis for determining the type of physical activity a student should take. Great emphasis is placed upon the teaching and learning of skills which can be used after college.

Special remedial and corrective classes as well as "rest classes" are provided for students requiring special individual attention. When necessary, recommendations are made to the Committee on Instruction regarding the student's academic program. As far as possible the work in the Department of Physical Education is conducted in the open air and the program is planned to meet the problem of individual differences and interests.

Much stress is laid upon the development and training of student leadership and ample opportunity is offered for students to assume responsibilities in connection with the work of the Department as well as that of the Athletic Association.

THE UNIVERSITY LIBRARY

The general Library of the University contains about 1,520,000 volumes exclusive of unbound pamphlets and doctoral dissertations. The various departments of instruction have special libraries in connection with their lecture-rooms and laboratories. The Avery Architectural Library, the Law Library, the Ella Weed Library of Barnard College, the Teachers College Library, and the libraries of the College of Physicians and Surgeons and the College of Pharmacy are all available to students of the University.

For the convenience of the undergraduates of Barnard College there is maintained in the Ella Weed Library in Barnard Hall a carefully selected collection of reference books of about 55,250 volumes.

UNIVERSITY BOOKSTORE

The official University Bookstore is situated in the Journalism building, with entrances at the southeast corner of 116th Street and Broadway, and from South Quadrangle between Furnald Hall and Journalism. Books and other supplies are sold at discounts from the usual prices. The store is open on week-days from 8.30 A.M. to 8.30 P.M.; Saturdays, 8.30 A.M. to 6 P.M.; during the first days of each session, until 10 P.M. The store maintains a theater and concert ticket service, a travel bureau, telegraph agency, and other services with substantial savings to Columbia students. Students having deposit accounts with the University may also make withdrawals at the Bookstore.

Branches of the University Bookstore are maintained in Avery Hall, the McMillin Theater lobby, and at the College of Physicians and Surgeons.

ASSEMBLY AND CHAPEL

University or College assembly is held Tuesdays at 1.10 o'clock. All students are expected to attend.

In St. Paul's Chapel, the chapel of Columbia University, service is held every week-day except Saturday at 12 o'clock and on Sunday morning at 11 o'clock. At these services attendance is voluntary.

A special University service is held in St. Paul's Chapel on the Tuesday preceding the Thanksgiving recess.

OCCUPATION BUREAU

The Occupation Bureau registers alumnae and students in search of employment or professional advancement and recommends them to employers who apply to the College.

In general, students are not advised to undertake employment during their first winter or spring session in college, since it is difficult for them to estimate at first the amount of time that can safely be spared from academic work. That is, the College prefers that they do not enter until they have funds available for the first year's expenses. After the first session or first year an able student in good health can usually arrange to spare three or four half-days a week, and can perhaps earn a part of her expenses in this way. Some summer work may also be obtained. Most unskilled student work is, however, paid at a low rate. No student who carries a full course can expect to earn all of her expenses, both tuition and living. At the present time opportunities are few compared to the number of students in search of them.

Both students and graduates making inquiry of the Bureau are given as much information as possible about opportunities in different lines of work and the requirements therefor. For each student a personal record including scholastic achievement, rating in the entrance scholastic aptitude test, extra-curricular interests, vocational interests and experiences, etc., is kept in this office, in order that the vocational information given may be as helpful as possible. The Vocational Advisory Committee of the Associate Alumnae coöperates with the Bureau; and members of the Faculty assist students with information in regard to particular vocations.

The College keeps in touch with the *Cooperative Bureau for Teachers* and the *Institute of Women's Professional Relations*, and utilizes the information collected by them.

STUDENT ORGANIZATIONS

Under the system of self-government in use in the College, the various student organizations are supervised by the Student Council and the Representative Assembly, subject to the general approval of the Faculty. The Student Council also administers the Honor Code, in accordance with which all students on entering Barnard College agree to maintain a high standard of honor in examinations and all phases of college life.

Every regular or unclassified student is a member also of the Undergraduate Association and as such is at liberty, on payment of the student fee, to take part in all general undergraduate and class functions, to make use of all privileges of the Athletic Association, and to receive the College weekly paper and literary quarterly. Special students may become special and associate members of the Association, if they so desire.

STATISTICS

	1889 to 1890	1894 to 1895	1899 to 1900	1904 to 1905	1909 to 1910	1914 to 1915	1919 to 1920	1924 to 1925	1925 to 1926	1926 to 1927	1927 to 1928	1928 to 1929	1929 to 1930	1930 to 1931	1931 to 1932	1932 to 1933	1933 to 1934	1934 to 1935	1935 to 1936	1936 to 1937
UNDERGRADUATES, REGULAR:																				
Seniors . . . . .	..	9	40	83	62	*123	87	*126	155	*175	*143	*192	227	189	195	*213	170	*181	*189	*183
Juniors . . . . .	..	18	40	71	122	110	190	259	271	258	304	318	237	222	230	207	229	220	209	231
Sophomores . . . . .	..	18	37	75	109	191	193	234	227	245	253	244	247	264	232	233	243	226	232	199
Freshmen (regular) . . . . .	..	26	54	110	188	240	224	271	315	313	304	314	311	291	282	262	241	267	241	257
Freshmen (partly regular)	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unclassified students . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
SPECIAL STUDENTS:																				
Matriculated	14	71	171	339	481	664	694	947	1012	1051	1049	1116	1076	1028	1002	1008	970	997	1003	1005
Nonmatriculated . . . . .	..	..	21	27	24	32	39	..	..	..	..	..	..	..	..	..	..	..	..	..
Departmental (1889-1896) . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Music students (1896-1904, 1914-1915) . . . . .	..	..	41	..	..	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
GRADUATE STUDENTS (1890-1900)	22	29	62	27	54	69	61	33	37	35	24	30	28	26	42	35	32	29	24	28
TOTAL STUDENTS PRIMARILY REGISTERED AT BARNARD . . . . .	..	19	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
STUDENTS FROM COLUMBIA UNIVERSITY	36	119	315	366	535	733	755	980	1049	1086	1073	1146	1104	1054	1044	1043	1002	1026	1027	1033
STUDENTS FROM TEACHERS COLLEGE . . . . .	..	..	..	62	59	28	80	153	128	93	152	116	234	195	167	143	118	163	171	174
TOTAL STUDENTS FROM OTHER PARTS OF THE UNIVERSITY . . . . .	..	..	18	77	200	*108	38	50	49	43	42	30	62	45	46	29	37	21	48	25
TOTAL REGISTRATION . . . . .	..	..	18	139	259	136	118	203	177	136	194	146	296	240	213	172	155	184	219	199
DEGREES CONFERRED:	36	119	333	505	794	869	873	1183	1226	1222	1267	1292	1400	1294	1257	1215	1157	1210	1246	1232
A.B. . . . .	..	8	39	83	88	141	139	198	212	250	190	254	247	218	219	231	200	221	216	..
B.S. . . . .	..	..	..	..	..	..	5	..	..	..	..	..	..	..	..	..	..	..	..	..
A.M. (1894-1900) . . . . .	..	1	18	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ph.D. (1895-1900) . . . . .	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TOTAL BACHELORS' DEGREES CONFERRED 1893-1936; A.B., 5570; B.S., 77.
 * The figures for seniors include students counting the first year in a professional school of the University in place of the fourth year at Barnard as follows:
 1914-15 3 in Education 1934-35 1 in Law, 1 in Medicine
 1924-25 1 in Medicine 1935-36 4 in Law, 1 in Architecture
 1926-27 2 in Medicine 1936-37 2 in Medicine

DEPARTMENTAL STATEMENTS

The following general regulations apply to all courses. The paragraphs on "The Program of Studies," pp. 35-37, should be carefully read.

Admission to courses depends upon completion of the prerequisites as stated for each course. In all cases the requirements as to prerequisites for any course must be completed before the beginning of the winter or of the spring session in which the course is given. Where no prerequisite is stated and where no limitation is noted, the course may be taken for a degree by any student of the college.

When an announced course has not been applied for by at least three candidates for a degree, the instructor may withdraw it.

Where the hours for laboratory work are not given in the departmental statement they must be arranged after consultation with the officer in charge of the course.

Courses designated by capital letters are prescribed. Elective courses are designated by numbers, odd numbers indicating the winter session, and even numbers the spring session. A compound course is therefore designated by an odd number and the succeeding even number. The numbers from 1 to 99 inclusive are given to courses open only to undergraduates; the numbers from 101 to 199 inclusive are given to courses open to both undergraduates and graduates, the lower numbers in each case being used for the introductory courses.

A Roman numeral in parentheses after the hour indicates the section number (*e.g.*, M., W. and F. at 9 (I), at 10 (II), etc.).

In the statement of each course the prerequisites are indicated. When no department is named, it is to be assumed that the reference is to a numbered course in the same department. *No credit in points will be given for a course which is taken subsequent to the course or courses for which it is in any way a prerequisite, though not formally so announced. Courses must be taken for the credit value announced — for no more or no less.*

A hyphenated course (*e.g.*, History 1-2) is regarded as a full-year course, of which the first half is always assumed to be a prerequisite for admission to the second half, and, except for reasons of weight, and with the written consent of the instructor, no credit will be given for work dropped at the mid-year or before the completion of the course. A course of which the index signs are separated by a comma (*e.g.*, English 3, 4) is regarded as a divisible course of which the first half may be taken separately. *Admission to the second half of a divisible course is granted only when all prerequisites have been met and the written consent of the instructor obtained.*

Courses marked with an asterisk (*) are given at Columbia University (*cf.* p. 39).

Courses marked with a dagger (†) are given at Teachers College. *Work at Teachers College mentioned herein may be pursued only by regularly enrolled students of Barnard College and only when counting for a Barnard College degree. Certain courses not here specified as being open at Teachers College may, through*

the courtesy of Teachers College and with the consent of the Committee on Instruction, be taken by such students.

For further detailed information in regard to topics, text-books, or methods in any particular course students are referred to the instructors.

ANTHROPOLOGY

A major in anthropology will satisfy the requirement in Group III. Students majoring in this subject must satisfy the 14-point requirement in Group II in subjects other than anthropology. For other students, courses in anthropology will count toward the group requirement as indicated for each course by the statement made in connection with the point value.

A major in Anthropology. — Students majoring in anthropology will be required to take: (a) a comprehensive examination in three parts of which one will be in language, the other two according to the work pursued by the individual student and (b) the following courses in

Anthropology — Courses 1, 2, or 3, 4.

Other fields — A reading knowledge of German and courses which will vary with the special interest of the student and must be arranged in consultation with the major department.

Honors course (see page 37). — Candidates for a degree with honors will be required to submit a paper which is the result of research in some special subject. The comprehensive examination will include a knowledge of anthropological problems, theories and methods. Required courses will differ for individual students but the following are suggested: a reading knowledge of Spanish and German; fundamentals of natural sciences or social sciences, or both; mathematics, preferably through integral calculus.

1, 2 — Introduction to historical anthropology. Professor REICHARD. 8 points in Group III.

M., W. and F. at 1, and weekly visits to the American Museum of Natural History at hours to be arranged. Students who have taken Course 3, 4 need not repeat the museum work for Course 1, 2 but may satisfy the fourth point by reading and research.

Open to all excepting freshmen. Either half of this course may be taken separately.

The early history of mankind; the antiquity of man; the races of man; the distribution of languages; the independent development in the new world and the old; characterization of the tribes of Africa, Australia, Polynesia, Asia, prehistoric Europe and America.

Courses 1, 2 and 3, 4 are ordinarily given in alternate years.

[3, 4 — Introduction to comparative anthropology. Professor REICHARD. 8 points in Group II.

Open to all excepting freshmen. Either half of this course may be taken separately.

The relation between race and mental faculties; the characteristics of languages; cultural types and areas; historical influences determining cultural development; the growth of civilization; the historical development of industries, forms of art, society and religion. The application of anthropological data to modern social problems; the development of reason; the emotional attitudes determining behavior; the influences of patterns determining lines of thought and action; the individual and society.

Not given in 1937-38.]

5, 6 — Language and thought. Professor REICHARD. 4 points in Group I. M. and W. at 2.

Course 5 is prerequisite to Course 6.

Specially recommended for foreign students and students interested in language and linguistic problems.

Analysis and comparison of expression in English and one or more Indo-European languages (determined by language offered by students electing course); relationship between grammar, thought and vocabulary. Special attention to analysis, use, and function of vocabulary.

7, 8 — The study of unwritten languages. Professor REICHARD. 4 points in Group I.

Hours to be arranged.

.. Course 7 is prerequisite to Course 8.

Kind of thought and its expression in unwritten languages. Methods of recording, significance of grammatical processes; thought categories; analysis of vocabulary; types and distribution of languages; importance of language research in the social sciences; relationship between language, race and culture.

10 — Folk music. Professor HERZOG. 3 points in Group I.

M. and W. at 10. 417 Schermerhorn extension.

The study of folk music in Europe and in America; its relation to balladry, song text and the social setting. Comparisons with occidental, oriental and primitive music. Demonstrations by phonograph records.

51, 52 — Seminar: problems in anthropology. Professor REICHARD. 4 points in Group III.

Hours to be arranged.

Open only to students who have had some work in anthropology and with the approval of the instructor. May be taken two years in succession.

The specific subject for discussion will be determined by the interest of the students applying for the course.

[107 — Traditional literature. Professor REICHARD. 3 points in Group I.

Open to juniors and seniors.

Primitive literature in the old and new worlds. Form and content of tradition: the proverb, riddle, folk tale, myth, fairy tale, romance, adventure, novel, verse and song. Types of character and plot. Mythological styles defined.

This course aims to acquaint students with valuable material which is not generally known, rather than to develop mythological theories, although the latter will be briefly discussed.

Not given in 1937-38.]

[108 — The art of primitive man. Professor REICHARD. 3 points in Group I.

Open to juniors and seniors.

Control of technic; geometrical and representative design. Art of various groups defined. A study of proportion, of design, line and mass; of rhythm, symmetry and balance; of color. The attitude of the artist and of the social group. Theories of art.

Not given in 1937-38.]

Courses 107, 108 and 109, 110 are ordinarily given in alternate years.

109 — Primitive social life. Professor REICHARD. 3 points in Group III.

M., W. and F. at 11.

Open to juniors and seniors.

The organization of the family, sib, totem and association; kinship and marriage customs; rank, property, wealth, inheritance, position of women, education; birth, puberty and funeral customs; political organization; the relation of the individual to his environment and comparisons between modern and primitive societies.

110 — Man and the supernatural. Professor REICHARD. 3 points in Group III.

M., W. and F. at 11.

Open to juniors and seniors.

Primitive religion: questions of taboo, ancestor worship, the fetish, animism, shamanism, the vision, priesthood and witchcraft; deities, sacrifice and ceremonialism. Rationalistic and emotional factors in religious life. The relation of religion to other phases of culture. Theories of origins and development.

More advanced courses given at Columbia University are described in the Announcement of the Division of Philosophy, Psychology and Anthropology.

ARCHAEOLOGY. See **Fine Arts and Archaeology** and **Greek and Latin.**

ASTRONOMY

***1-2 — General astronomy.** Introductory course. Professor ECKERT. 6 points.
Tu. and Th. at 11, and quiz and observatory hours, Monday evening at 7.30.
301 Physics.

This course leads to an understanding of our knowledge concerning the structure of the solar system and the sidereal universe. The method of approach is descriptive rather than mathematical.

More advanced courses given at Columbia University are described in the Announcement of the Division of Mathematical and Physical Sciences. Students wishing to continue work in astronomy should note the prerequisites for the advanced courses and plan their work accordingly.

BOTANY

A major in Botany. — Students majoring in botany will be required to take in

Botany — Courses 51-52; 53-54 or 55-56; and such other courses, subject to the approval of the department, as meet the particular needs and purposes of each student.

Other fields — At least one year's work in chemistry and in zoölogy, a reading knowledge of a modern foreign language, and other courses according to the special needs of the student.

Honors Course (see page 37). — The comprehensive examination assumes: (a) a knowledge of the morphology, physiology, and classification of plants; (b) a more thorough acquaintance with a particular field of botany, including work on a special problem in this field; (c) familiarity with the history of botany and subjects requisite for and cognate to a study of the major topic.

51-52 — Principles of the morphology, physiology and classification of plants. Professors SINNOTT and CAREY, Misses TROMBETTA and BINDLOSS. 8 points.

Lectures: Tu. and Th. at 11. Laboratory (4 hours): Tu. and Th., 9-11, or Tu. and Th., 2-4, or, if more than 60 students elect the course, M. and W., 1-3.

53-54 — Comparative morphology and development of plants, study of types. Professor HAZEN. 8 points.

Lectures: Tu. and Th. at 9. Laboratory (4 hours): on Tu. and Th. in so far as possible.

Prerequisite, Course 51-52, or the equivalent.

55-56 — Structure and relationships of flowering plants. Professor HAZEN. 6 points.

Hours to be arranged for a conference and 4 hours of laboratory work.

Prerequisite, Course 51-52, or the equivalent.

58 — General plant physiology. Mrs. RICHARDS. 5 points.

Lectures: M. and W. at 11. Laboratory (6 hours): M., 2-5, and W., 1-5, in so far as possible.

Prerequisite, Course 51-52.

150 — Principles of genetics. Professor SINNOTT. 3 points.

Lectures: Tu. and Th. at 3. Laboratory (2 hours): Tu., 4-6 (or by arrangement).

Prerequisite, a year of college work in either botany or zoölogy.

151-152 — Bacteria and ferment fungi. Professor CAREY and Miss JACOBS. 10 points.

Lectures: M. and F. at 1. Laboratory (6 hours): M. and W., 9-12, or M., 2-5, and W., 1-5, or hours to be arranged.

Prerequisite, Course 51-52, or the equivalent, and a minimum of one year's work in college chemistry. Open only to properly qualified juniors and seniors.

153 — Physiological anatomy of vascular plants. Mrs. RICHARDS. 5 points.

Lectures: M. and W. at 11. Laboratory (6 hours): M., 2-5, and W., 1-5, in so far as possible.

Prerequisite, Course 53-54 or 55-56, except by special permission of the instructor.

157 — Embryology and microscopical methods. Professor HAZEN. 3 points.

Hours to be arranged for 6 hours of laboratory work with occasional lectures.

Open to students only after consultation with the instructor.

Practice in methods of microscopical technic, with the study of the embryology of one or more types.

158 — Structure and development of algae. Advanced course. Professor HAZEN. 4 points.

Hours to be arranged.

Prerequisite, Courses 51-52 and 53-54.

Special attention may be given to algae of water supplies.

161, 162 — Advanced morphology and physiology. Professors SINNOTT, HAZEN and CAREY and Mrs. RICHARDS.

Hours and credit by arrangement.

Work will be planned to suit the needs of students after consultation with the instructors. This course may be taken in successive years.

CHEMISTRY

A major in Chemistry. — Students majoring in chemistry will be required to take in Chemistry — Courses 5-6, 63, 64, and 41-42. Course 105 is strongly advised.

Other fields — Physics — a year's work in general physics;

Mathematics 7-8 or 1 and 22. A course in calculus is advised;

A reading knowledge of German to be acquired by the beginning of the third year's work.

A reading knowledge of French is also necessary for students specializing in chemistry.

Honors Course (see page 37). — The comprehensive honors examination assumes: (a) knowledge of inorganic, organic, physical and analytical chemistry; (b) a more thorough acquaintance with one of these divisions and of a special problem in this; (c) the history and present trend of chemistry; (d) mathematics, physics, French and German.

5-6 — General inorganic chemistry. Professors REIMER and KELLER, Mrs. FISHER and Miss CHASE. 8 points.

Lectures: Tu. and Th. at 10 and a third hour, S. at 10 or F. at 1. The S. hour is intended primarily for freshmen.

Laboratory: For students who are beginning the subject (I) Tu., W. or Th. 2-4.30.

For students who have passed the entrance examination in chemistry (II) M. or Tu., 2-4.30. In order to obtain full credit for the course a student who has passed the entrance examination in chemistry must take laboratory section (II).

Preceding or parallel, Mathematics 7-8 or 1 and 22.

63, 64 — Qualitative and quantitative analysis. Professor KELLER and Dr. BEHRENS. 12 points.

Lectures: M., W. and F. at 10. Laboratory (6 hours): Tu., 2-5, and Th., 1-4, or M. and W., 1-4.

Laboratory deposit, \$10.00 each session.

Prerequisite, Course 5-6.

65, 66 — Quantitative analysis, advanced course. Professor KELLER and Dr. BEHRENS. 8 points.

Lecture: Th. at 1. Laboratory (6 hours): Tu. and Th., 9–12.

Laboratory deposit, \$12.50 each session.

Prerequisite, Course **63, 64**.

This course is designed to meet the needs of individual students and will be given for a class of five or more.

41–42 — Organic chemistry. Professor REIMER and Dr. DOWNES. 12 points.

Lectures: M., W. and F. at 9. Laboratory (a minimum of 6 hours): M. and W., 2–5 or Tu. and Th., 9–12.

Laboratory deposit, \$12.50 each session.

Prerequisite, Courses **5–6** and, except on written permission of the department, **63, 64**.

[**42a — Organic chemistry, shorter course.** Dr. DOWNES. 6 points.

Laboratory deposit, \$15.00.

Prerequisite, Course **5–6**.

Not given in 1937–38.]

105 — Physical chemistry. Professor KELLER and Dr. BEHRENS. 6 points.

Lectures: M., W. and F. at 2. Laboratory (a minimum of 6 hours): Tu. and Th., 9–12.

Laboratory deposit, \$15.00.

Prerequisite, Courses **63, 64; 41–42; Physics 11–12**, and a course in calculus.

106 — Inorganic chemistry, advanced course. Professor KELLER and Dr. BEHRENS. 6 points.

Lectures: M., W. and F. at 10. Laboratory (a minimum of 6 hours): Tu. and Th., 9–12.

Laboratory deposit, \$15.00.

Prerequisite, Courses **63, 64; 41–42; Physics 11–12**.

145 — Organic chemistry, advanced course. Professor REIMER. 6 points.

Lectures: M., W. and F. at 11. Laboratory (a minimum of 6 hours): Tu. and Th., 2–5.

Laboratory deposit, \$15.00 each session.

Prerequisite, Courses **5–6; 63, 64; 41–42**.

157, 158 — Problems in chemistry. Conferences and laboratory work in advanced organic or inorganic chemistry or micro-analysis. Professors REIMER and KELLER and Dr. BEHRENS.

Hours and credit by arrangement.

Laboratory deposit, \$15.00 each session.

Open only to advanced students.

Physiological chemistry. Professor GREGORY and Dr. DOWNES. 12 points.
See Zoölogy **151–152**, page 116.

CHINESE. See Fine Arts and Archaeology, History, and Oriental Civilizations.

CLASSICAL CIVILIZATION. See Greek and Latin.

COMPARATIVE LINGUISTICS

1, 2 — The foundations of language. Professor GRAY. 4 points.

Tu. and Th. at 4. 308 Philosophy.

Open to all excepting freshmen.

This course cannot count toward the major in any language.

Winter session: The nature and universal principles of language, its physiological and psychological foundations, and its relations to the various phenomena of human civilization: classification, distribution and characteristics of the types of language.

Spring session: Survey of the Indo-European languages; sound-changes and sound-laws; outlines of inflexion and syntax; development of the meaning of words.

The entire course is designed to give students in classics, modern languages and English a general scientific knowledge of the principles common to all languages, particularly as found in the Indo-European group, and thus to aid them in gaining a better understanding of the languages in which they are specializing.

ECONOMICS AND SOCIAL SCIENCE

Course 18 counts in Group II unless taken as part of a major in economics or sociology in which case it may count toward that major and the 14-point requirement in Group II must be satisfied in other subjects.

A major in Economics or in Sociology. — Students may major in economics, or in sociology. For students majoring in sociology one or more courses in allied subjects may, with the permission of the department, be counted as making up points toward the major. All students majoring in economics or sociology will be required to have a reading knowledge of French or German and to take:

Economics 1-2 and 17 — Beyond these the work will vary with the interest of the students. Immediately following Course 1-2, those majoring in economics will take Courses 13, 14 for 3 points each and Course 17; but an advanced course may be taken parallel to 13, 14 and 17.

Other social sciences — In view of the essential unity of the social sciences every student majoring in economics or in sociology is required to take courses from the following list amounting to 12 points distributed between two departments:

Anthropology 1, 2 or 3, 4; 109, 110;
Geography 1, 2;
Government 1, 2; 3, 4; 7, 8; 23, 24;
History 1-2; 9, 10; 19, 20; 51, 52; 149, 150;
Psychology 1, 38;
Religion 3, 4.

Sociology majors may elect courses in economics including Economics 1-2 and economics majors may elect courses in sociology including Sociology 1-2 in place of the social sciences listed above.

Honors Course (see page 37). — The comprehensive examination assumes: (a) knowledge of (1) principles of economics, current economic problems, history of economic theory and development, statistics, or (2) principles of sociology, current sociological problems, social work, psychological and anthropological sociology; (b) a more thorough acquaintance with a smaller group of allied subjects from the preceding list, and (c) special proficiency in some one chosen interest from this field. French and German are desirable as tools. Important allied subjects are government, psychology, history and anthropology. A detailed statement of honors requirements is available on application to the department.

ECONOMICS

1-2 — Outlines of economics. Professors HUTCHINSON, BAKER and GAYER. 6 points.

M., W. and F. at 10 (I), at 2 (II and III), also at 2 (IV) for freshmen only. This course is divisible for freshmen only.

Course 1 is prerequisite to Course 2. Both courses are required of majors and are prerequisite to other courses as indicated.

Winter session: A concrete description of economic life and a study of particular forms of business organization such as factories, railroads, farms, banks, stock and produce exchanges.

Spring session: The more general principles underlying production and distribution of wealth the influences that determine prices; theories of wages, interest and profits, competition and monopoly, the relation of modern business to wealth and welfare; the rôle of the state in economic life.

13 — Economic history of England. Professor HUTCHINSON. 2 or 3 points.
Tu. and Th. at 11 (2 points); additional hour, W. at 4 (3 points).
Prerequisite, Course 1-2 or History 12.

A survey of the economic development of England since 1800. Special attention is given to the social and economic problems of machine production; the trade policy of England; the labor movement; imperialism.

14 — Economic history of the United States. Professor HUTCHINSON. 2 or 3 points.
Tu. and Th. at 11 (2 points); additional hour, W. at 4 (3 points).
Prerequisite, Course 1-2 or History 10.

A study of leading economic questions since 1800 in agriculture, industry, trade, transportation and banking.

17 — Introduction to statistics. Dr. ELIOT. 3 points.
Tu. and Th. at 10 and a laboratory hour to be arranged.
Open to all excepting freshmen.

The gathering of statistical data; questionnaires; tabulation; graphs and charts; simpler methods of summarization and comparison. Statistical fallacies. Illustrative examples from various sciences.

18 — Statistical methods. Dr. ELIOT. 3 points in Group II.
Tu. and Th. at 10 and a laboratory hour to be arranged.
Open to all excepting freshmen.
Prerequisite, Course 17 or the equivalent.

Students are given the opportunity to acquaint themselves with the more common and basic techniques, such as index numbers, correlation and analysis of time-series, and with some statistical applications of the normal probability curve.

[19 — Labor problems. Professor BAKER. 3 points.
Prerequisite, Course 1-2.

The gainfully employed in the United States and the problems of particular groups according to age, sex, and geographical location. Unemployment, wages, and other causes of unrest. Attempts to relieve these causes through legislation and other public and private action, including scientific management, personnel administration and employee representation.

Not given in 1937-38.]

[20 — Trade unionism and its problems. Professor BAKER. 3 points.
Open to seniors and juniors and to sophomores who have had Course 1-2.

The changing structure and policies of organized labor in the United States; the response of management to the demands of labor; legal status of unions as decided in the courts, changing relations between government and labor as seen particularly in the Railroad Labor Act, the National Recovery Act and the National Labor Relations Act. Organized labor in European countries and in Russia and international labor organization.

Not given in 1937-38.]

21, 22 — Corporate enterprise and the state. Professor BAKER. 6 points.
M., W. and F. at 10.
Prerequisite, Course 1-2. Course 21 is prerequisite for Course 22.

The development and present nature of financial and business organization with relation to the state, and to investor, worker and consumer.

Winter session: The financial structure of corporate enterprise including the nature of corporate securities, promotion, capitalization and the financial statement.

Spring session: The business organization as a going concern dealing with its problems of marketing, production, personnel and finance. The rôle of the government in the regulation of corporate enterprise on behalf of stockholders and bondholders, workers and consumers.

[23, 24 — Money, banking and international finance. Professor GAYER. 6 points.

Prerequisite, Course 1-2. Course 23 and the consent of the instructor are prerequisite for Course 24.

A course in general principles and current problems. The nature and functions of money, banking and credit; monetary standards, gold, bimetallic and paper; the cyclical and secular influences governing the price level; the relations between money, prices and business activity; the fundamentals of banking theory and organization in the United States and Great Britain; the relations between banking and government fiscal policy; the foreign exchanges and the world money markets; the general theory of international trade and payments; sources and consequences of monetary instability; proposals for monetary control and banking reform; current problems of monetary policy and economic stabilization.

If numbers permit, the work of the spring session will be largely conducted along lines of seminars and reports, with opportunities for students to do independent work.

Not given in 1937-38.]

25-26 — The consumer in modern society. Professor HUTCHINSON. 4 or 6 points.

Tu. and Th. at 10.

Prerequisite, Course 1-2.

Our economic organization considered from the standpoint of the consumer. A study of standards of living as reflected in family budgets and in market analyses; the significance of standards of living as a measure of social welfare and as a test of the efficiency of our economic system; factors that determine consumers' choice, such as advertising and fashion; the significance of the rapid growth of the installment system and other forms of consumer credit; the coöperative movement; the recent emphasis upon the importance of the consumer as buyer in guiding production.

27, 28 — The economic organization of society. Professor GAYER. 6 points.

M., W. and F. at 11.

Prerequisite, Course 1-2 and, preferably, Course 23. Course 27 is prerequisite for Course 28.

The historical development of a systematic explanation of economic life. The underlying forces in the competitive order and their reflection in economic theory. Marxism and other criticisms of orthodox theory. Alternative systems of organization and proposals for reform and planned economy. The interaction of economic forces will be stressed. Economic theory discussed with direct reference to the basic economic problems of the modern world, such as economic instability and unemployment, competition, monopoly and control; the distribution of income and of resources, and international economic relations.

29, 30 — Statistical research. Dr. ELIOT. 6 points.

Hours to be arranged.

Prerequisite, Course 17 and the permission of the instructor.

Special problems in social science selected with reference to the interest of the individual student. The emphasis is on the application of methods in actual statistical investigation, in the field when practicable, rather than on acquisition of further theory or technic.

51, 52 — Seminar in labor and personnel problems. Professor BAKER. 6 points.

Hours to be arranged.

Prerequisite, Courses 19 and 20 and the permission of the instructor. Students wishing to take this course parallel to Courses 19, 20 should consult the instructor.

More advanced courses given at Columbia University are described in the Announcement of the Division of History, Economics, Public Law and Social Science.

SOCIOLOGY

1-2 — Introduction to sociology. Professor MACIVER and Mr. HINTON. 6 points.

M. and W. at 11 and in sections at one of the following hours: F. at 9, or at 10, or at 11.

Open to sophomores, juniors and seniors.

The elements of the social structure, customs, institutions, and associations; group interests and group formations; the family; the fabric of modern large-scale organization; the adjustment of society to environment; the more recent evolution of the social structure.

21, 22 — An introduction to the field of social work. Miss KASIUS. 4 points. Th., 1-3.

Open to juniors and seniors. Course 21 is prerequisite for Course 22.

A description of types of social work found in present-day practice, and an interpretation of main underlying principles; social work organizations and the various methods employed in meeting social problems.

31, 32 — The family. Miss KOMAROVSKY. 4 or 6 points. Tu., 2-4.

Open to juniors and seniors. Course 31 or Course 1 is prerequisite for Course 32.

The family in primitive and historic society; the industrial revolution and the evolution of the modern family; dominant trends of change in forms and functions of the modern family; comparative analysis of the family trends in several European countries; urban-rural comparisons; problems of the modern family; family reorganization; current research in problems of marriage and divorce; probable direction of future change.

[41 — Forms and limits of social control. Mr. HINTON. 3 points. Prerequisite, Course 1-2.

A general survey of the different ways in which individuals are controlled by the permanent and transient social groups to which they belong; the nation, the family, the crowd, etc., with emphasis on the personal problem of reconciling individuality with social control, and some attention to psychoanalysis.

Not given in 1937-38.]

[42 — Government as an instrument for social control. Mr. HINTON. 3 points.

Prerequisite, Course 41, or Course 1-2 and the permission of the instructor.

The present and possible effectiveness of appeals by government to social motives such as loyalty, sympathy, hero-worship, etc., as distinguished from use of physical force and threats, with illustrations from governmental practice in the United States, England, Italy, Germany and Russia.

Not given in 1937-38.]

53, 54 — Social evolution. Mr. HINTON. 6 points. M., W. and F. at 1.

Prerequisite, Course 1-2. Course 53 is prerequisite for Course 54.

The trends of social change; the concept of social evolution and its value for the student of society; contrast between simple and evolved societies; search for causes underlying social changes; the effects of social change on problems of personal living.

61-62 — Recent and contemporary sociology. Mr. HINTON. 6 points. Tu. and Th. at 11 and Th. at 3.

Open to sophomores, juniors and seniors.

An introduction to the main concepts and problems of sociology through a reading and discussion of the principal sociologists of the nineteenth and twentieth centuries.

97-98 — Sociology seminar. Professor MACIVER, Miss KOMAROVSKY and Mr. HINTON. 4 or 6 points.

Hours and subject to be arranged.

Prerequisite, Course 1-2 and permission of the instructors.

Sociology Club. The faculty and students will hold afternoon meetings at regular intervals and at hours to be arranged to discuss current researches, vocational opportunities, etc. Open to juniors and seniors who are majoring in Sociology.

See also Public Law 171, 172, page 87.

Courses on Problems of population and vital and economic statistics (Sociology 123, 124), Trends, types and conditions of social change (Sociology 255, 256) and other advanced courses given at Columbia University are described in the Announcement of the Division of History, Economics, Public Law and Social Science.

EDUCATION

Courses in education will not satisfy the 14-point requirement in any group.

Note. Barnard College students will not be allowed to take, in any one year, more than twelve points in the education courses listed below.

†07A — Educational psychology. Professor H. L. HOLLINGWORTH and Mr. SIMPSON. 3 points either session.

Winter session only: I — M., W. and F. at 1.

Spring session only: II — M., W. and F. at 10.

Prerequisite, Psychology 1 or the equivalent. Open to all excepting freshmen. (See note above.)

An introductory survey of the applications of psychology to teaching, school management and modern educational practice and theory. This course is prerequisite to all other courses in education, but may be taken parallel to Course B01A, B02A and to the winter session only of Course 35A-36A.

The three points of this course may be credited toward the New York State requirement for certification for teaching in secondary schools.

†B01A, B02A — Historical development and current problems of education. Dr. BUTTS (winter session) and Dr. HART (spring session). 6 points.

M. at 3 and W., 3-4.50. 301 Teachers College Main Hall.

Preceding or parallel, Course 07A. Open to juniors and seniors. (See note above.)

This course will deal with problems which arise in the development of education in relation to the culture of a people. It is planned as a one-year unit. In the winter session the emphasis will be upon the problems as they have appeared in the historical relations of outstanding Western cultures and education. The spring session will be devoted mainly to a theoretical treatment of the problems in the current setting.

The six points of this course may be credited toward the New York State requirement for certification for teaching in secondary schools.

†35A-36A — High-school teaching. Professor WOODRING. 6, or with the consent of the Dean, 8 points.

M., W. and F. at 2. 236 Macy Hall.

This course is not divisible.

Preceding or parallel, Courses 07A, B01A, B02A (Course 07A may be taken parallel in winter session only). (See note above.) Open only to seniors whose standing in their major subject and in their college courses in general is high

enough to enable them to qualify for the recommendation of the Committee on Instruction for teaching positions.

A course in methods, observation, and participation for prospective teachers. The work will proceed along three lines: (1) development of the basic principles underlying all good teaching through class discussion, practical exercises and contacts with teaching; (2) organization of teaching materials and methods of teaching in the special subject-matter fields; (3) directed observations and participation under supervision. The six points of this course may be credited toward the New York State requirement for certification for teaching in secondary schools. Students planning to teach in New Jersey may, with the consent of the Dean, enroll for eight points.

Other courses offered at Teachers College are open under certain conditions to specially qualified seniors upon consent of the Committee on Instruction of Barnard College and the instructor in Teachers College. These courses include Educational psychology; History of education; Principles of teaching; Teaching elementary school subjects.

ENGLISH

A major in English. — Students majoring in English will be required to take in English — A or B as follows:

A. A comprehensive examination in three parts: (1) history of the English language, including a reading knowledge of Anglo-Saxon or Middle English, and English medieval literature; (2) English literature before 1700 with special reference to Shakespeare and Milton; (3) English and American literature since 1700.

B. Part 2 or 3 of the comprehensive examination described above and 18 points from Group 1 (Composition) passed with at least grade B, 6 points to be taken prior to the junior year. Students majoring in English and specializing in composition may, with the approval of the department, take the comprehensive examination, Part 2 or 3, at the end of the junior year.

These examinations must be passed with a grade of C.

Other fields — Related courses in other departments. A reading knowledge of at least two foreign languages, one of which should be modern.

Honors Course (see page 37). — Required of all candidates in each year of candidacy: Course 91, 92. The comprehensive examination assumes: (a) general knowledge of the growth and structure of the English language and command of either Anglo-Saxon or Middle English; (b) knowledge of the more important English authors and of their relations to literary periods; (c) comprehensive and detailed knowledge of one period or movement of major importance; (d) such knowledge of English history and of continental literature as is needed in each case.

A1-A2 — Composition. Professors BREWSTER, HOWARD, FAIRCHILD, LATHAM and REYNARD, Drs. MARSHALL, ROSENBLATT and MCGUIRE and Mr. JACK. 6 points.

M., W. and F. at 10 (I), at 2 (II); Tu., Th. and S. at 11 (III).

Prescribed for freshmen, and prerequisite for any other course except Courses 21-22; 39, 40; 45, 46.

Students not thoroughly accustomed to the use of English should consult Dr. McGuire before registering for Course A1-A2.

D1-D2 — Clinical instruction in speech and voice. Professor GREET and Mrs. SEALS. *For credit see D3-D4.*

Four lectures at 4 P.M. (September 29 in 304 Barnard, Oct. 1, 4 and 8 in Brinckerhoff Theatre), an individual examination and three conferences.

Prescribed for all new students, and prerequisite for D3-D4.

D3-D4 — Clinical instruction in speech and voice. Mrs. SEALS. 1 point upon completion of D1-D2 and D3-D4.

Three conferences at hours to be arranged.

Prescribed for all second-year students.

GROUP 1. *Composition courses*

Prerequisite, Course A1-A2. *Students electing any course in composition must secure permission of the instructor in charge.*

3, 4 — Advanced composition. Professor HOWARD. 6 points.

Tu. and Th. at 10 and a third hour to be arranged.

Daily themes (winter session). Essays in criticism. Experiments in modern verse, in narrative and in dramatic writing; designed for students who intend to major in English composition, but open to majors in other departments.

11, 12 — Story-writing. Professor STURTEVANT. 6 points.

Tu., 4-5.50 and a third hour to be arranged.

Intended primarily for students who wish to study and practice the short story, this course considers other forms of magazine writing incidentally.

15 — Play-writing. Professor LATHAM. 2 or 4 points.

M. and W. at 3 and an hour for criticism.

The primary intention is not to train playwrights, but to give an insight into drama as a mode of expression. Critical study of plays in text and in the theatre. Dramatizations, writing of original sketches, pantomimes and plays. Stage trial of all work by members of the class.

Students majoring in English and specializing in composition who have passed Part 2 or 3 of the comprehensive examination may, with the approval of the department, elect in the senior year one of the following courses (details including hours are given in the Announcement of University Classes):

***u1-u2 — Magazine articles.** Professors CLARK and MULLIN. 6 points.

***u1L-u2L — The writing of poetry.** Mr. AUSLANDER. 6 points.

***u3b-u4b — The short story.** Professors ROBINSON, BURRELL, HULL and MULLIN. 6 points.

Dramatic Arts u1c-u2c — Play-writing, advanced course. Professor HATCHER HUGHES. 6 points.

GROUP 2. *Speech courses*

Open to all students. Course 39, 40 is also advised for students specializing in speech.

21-22 — Speech. Mrs. SEALS and Mrs. ZIMMERMAN. 4 points.

M., W. and F. at 11 (I), at 1 (II).

Winter session: Fundamentals of voice and speech, voice exercises, practical English phonetics. Spring session: The principles of reading aloud, with special reference to phrasing, inflection and emphasis.

23-24 — Speech. Mrs. SEALS. 4 points.

Tu. at 2 and Th., 2-4.

Prerequisite, Course 21-22.

Oral interpretation of literature, narrative prose, various types of verse, drama.

GROUP 3. *Literature courses*

Course A1-A2 is prerequisite for all courses except 39, 40; 45, 46.

39, 40 — The development of the English language. Professor GREET. 6 points.

Tu. and Th. at 10.

Course 39 is prerequisite for Course 40.

Introduction to phonetics and to the history of the English language.

45 — Anglo-Saxon. Professor GREET. 3 points.

Tu. and Th. at 11.

46 — Beowulf. Professor GREET. 3 points.

Tu. and Th. at 11.

Prerequisite, Course 45.

49, 50 — Medieval epic and romance. Professor STURTEVANT. 4 or 6 points.

Tu. and Th. at 11 and a conference hour.

Myth; folktale; popular ballad; Norse Eddas; Islandic sagas; medieval and middle English romance; saints' legends; medieval epics of France, England, Germany.

53, 54 — Chaucer and his times. Professor GREET. 6 points.

M., W. and F. at 9.

Course 53 is prerequisite for Course 54.

57 — Development of English drama. Professor LATHAM. 3 points.

M., W. and F. at 1.

The historical and literary development of English drama from its origins to the seventeenth century.

[58 — *Not given in 1937-38.*]

Courses 57, 58 and 59, 60 will be given in alternate years.

[59, 60 — Modern English drama. Professor LATHAM. 6 points.

English and American playwrights from the eighteenth century to the present.

Not given in 1937-38.]

61-62 — Shakespeare. Professor BREWSTER. 6 points.

Tu. and Th. at 10 and a conference hour.

This course is indivisible except for students who took Course 62 in 1936-37.

65, 66 — English poetry from Spenser to Dryden. Professor HALLER. 6 points.

Tu. and Th. at 2 and conferences Tu. or Th. at 3 or at an hour to be arranged.

Course 65 is prerequisite for Course 66.

Spenser, the poetry of the Renaissance, Donne; Puritanism, the English Bible and Milton; Dryden and the beginnings of Classicism.

67, 68 — English literature of the eighteenth century. Professor SHERBURN. 6 points.

Tu. and Th. at 11.

Analysis of typical masterpieces in the prose and poetry of the period.

69, 70 — The English novel. Professor STURTEVANT. 4 or 6 points.

Tu. and Th. at 10.

The novel as a literary type and as a social document.

71, 72 — The romantic movement. Dr. MARSHALL: 4 or 6 points.
M. and W. at 11 and a conference hour.

English literature from Blake to Byron.

73, 74 — English literature of the nineteenth century (1830–1900). Professor HOWARD. 4 or 6 points.

M. and W. at 11 (4 points); additional hour for discussion, F. at 11 (6 points).

English literature from Carlyle to Kipling, with special reference to social conditions in England.

77, 78 — American literature. Professor REYNARD. 4 or 6 points.

Tu. and Th. at 9 and a conference hour.

79, 80 — English writers since 1870: their relation to French literature. Dr. ROSENBLATT. 4 or 6 points.

Tu. and Th. at 2.

Significant writers and movements from 1870 to the present that parallel or reflect developments in French literature. The esthetic movement; realism in fiction; the symbolist movement in poetry; "art for art's sake" versus the social function of the writer. Swinburne, Pater, Moore, James, Arthur Symonds, Yeats and their contemporaries. The influence of Baudelaire, Flaubert, Zola, the Goncourts and others.

91, 92 — Special reading. Professors HALLER, FAIRCHILD and REYNARD, Drs. MARSHALL and MCGUIRE. 4 points.

M., 2–4 (I), Tu., 3–5 (II), W., 3–5 (III), Th., 2–4 (IV), F., 2–4 (V).

Required of candidates for honors in English and recommended for major students; not open to other students; may be taken two years in succession. Registration in each section is strictly limited. Students who elect this course in junior year and change their major later will receive only half credit (1 point a term).

Special reading planned in each case to supplement and coördinate the student's other courses in English and related subjects.

FINE ARTS AND ARCHAEOLOGY

A major in Fine Arts. — Students majoring in fine arts will be required to take in

Fine Arts — Courses 41, 51, 52, 62, 65, 66, 75 and other courses to be arranged in consultation with the department.

Other fields — Courses in history, literature, languages, philosophy or other fields which will vary with the special interest of the student and must be arranged in consultation with the major department.

FINE ARTS

1–2 — Introduction to the study of fine arts. Miss GASTON. 4 points.

Tu. and Th. at 10.

Open only to freshmen and sophomores.

A general study of esthetic problems as preparation for a more detailed study of the fine arts. This will include a discussion of the major problems of artistic expression and their solution in the fields of architecture, sculpture and painting followed by a consideration of the relation of art forms to certain great periods of European culture.

41 — Ancient art. Professor LAWRENCE. 3 points.

M., W. and F. at 10 and conferences and visits to the Metropolitan Museum of Art at hours to be arranged.

Open to all excepting freshmen. History 5, 6 is recommended as a parallel to this course.

An introductory study of the art of Egypt, Mesopotamia, Persia, Greece and Rome.

51, 52 — Medieval art. Professor LAWRENCE. 6 points.

Tu. and Th. at 2 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to all excepting freshmen. History 7, 8 is recommended as a parallel to Course 51, 52. Course 51 is prerequisite for Course 52.

An introductory study of the origin and development of Christian art in Europe through the early Christian, Byzantine, Carolingian, Romanesque and Gothic periods.

62 — Italian Renaissance sculpture. Professor LAWRENCE. 3 points.

Tu. and Th. at 10 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to juniors and seniors.

The historical development of Italian sculpture from the late medieval period through Bernini. Special attention will be given to the genius of the Renaissance as expressed in the work of Donatello and Michelangelo.

65 — Italian Renaissance painting. Dr. HELD. 3 points.

M. and W. at 2 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to juniors and seniors.

The development of Italian painting of the Renaissance, with consideration of related tendencies in the period.

66 — Northern painting. Dr. HELD. 3 points.

M. and W. at 2 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to juniors and seniors.

The history and development of painting in the Flemish, German and Dutch schools from the end of the Gothic period through the seventeenth century.

68 — Prints and drawings. Miss BYRAM. 4 points.

M., W. and F. at 10 (I), at 11 (II) and a fourth hour to be arranged for study at the Metropolitan Museum of Art. 511 Schermerhorn.

Open to qualified students on special permission of the department.

The history and technic of the graphic arts and drawing as illustrated in the work of the principal artists from the beginning of the fifteenth century to modern times.

75 — European painting since 1600. Dr. HELD. 3 points.

Tu. and Th. at 11 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to juniors and seniors.

The development of painting in Europe from the seventeenth century to the end of the nineteenth century. Emphasis will be placed on those artists of the Spanish, French and English schools who are most significant in the evolution of modern painting.

90 — A general survey of oriental art. Miss GASTON. 3 points.

M., W. and F. at 10.

Open to all excepting freshmen.

An introductory study of the arts of Persia, India, China, Japan and the Central Asiatic region, with particular emphasis on political history, philosophy and religion as they affect the arts, and an investigation of the contact between the west and the east.

For courses on Art of primitive man, see Anthropology 108, page 62; Greek arts and crafts, see Archaeology 63, 64, page 88; Greek and Roman Theatre, see Archaeology 71, 72, page 81; Esthetics, see Philosophy 41-42, 45, 46, 145-146, pages 104-105.

Studio work

Note. Studio courses can count toward the degree only if taken parallel to a theoretical or historical course in fine arts.

DRAWING AND PAINTING

***u1-u2 — Freehand drawing and design.** Professor BRIGGS. 4 points (see note above).

M. and W., 2-4. 502 Avery.

Special fee, \$25 each session.

The members of the class will be given personal supervision in developing ability in drawing and design with relation to the study of fine arts. The students are guided, in the type of work for which they are best suited, to observe, analyze and re-create, using various materials for expression (pencil, brush and ink, crayon, water color, etc.).

Graduate courses

***141 — Architecture of classical antiquity.** Professors DINSMOOR and SWIFT. 3 points.

M. and F. at 1 and a third hour to be arranged for conference. 407 Avery.

Open to qualified seniors.

The evolution of architecture in Greek and Roman lands from the neolithic age to the reign of Constantine the Great. In addition to the analysis of the structural development a careful examination will be made of the relation of each architecture to its civilization and to the other arts produced in the same environment.

***145 — Greek art.** Professors BIEBER and DINSMOOR. 3 points.

Tu. and Th., 3-4.25, and occasional visits to the Metropolitan Museum of Art at hours to be arranged at the opening of the course. 408 Avery.

Open to qualified seniors.

An introduction to Greek art. A brief survey of the pre-Hellenic antiquities will be followed by a study of historic Greek art in its various fields.

***146 — Roman art.** Professor SWIFT. 3 points.

Tu. and Th., 3-4.25. 503 Schermerhorn.

Open to qualified seniors.

An introduction to Roman art including a systematic study of the last phase of classic art as presented by Roman sculpture and painting, and of the elements of Roman architecture, with preliminary consideration of the Hellenistic and Etruscan influences.

***147 — Greek and Roman portraiture.** Professor BIEBER. 3 points.

M. and F. at 10 and a third hour to be arranged. 503 Schermerhorn.

Open to qualified seniors.

A consideration of portraiture from the viewpoint of subject matter, likeness, esthetic values, its psychological and historical significance, tracing in general historical manner the portraiture of the Greeks and Romans, with special emphasis upon the periods of its greatest development, i.e., the fourth to the third century B.C. and the early Imperial period. Lectures, reports and required reading.

[*149 — Hellenistic sculpture. Professor BIEBER. 3 points.

Open to qualified seniors.

Beginning with a study of the influence of the great masters of the fourth century B.C., Praxiteles, Scopas and Lysippus, the course will be devoted primarily to the art of the third to the first century, the great masterpieces of late Greek art in Pergamon, Rhodes, etc., and the new themes of realistic portraiture, genre, daily life and landscape.

Not given in 1937-38.]

[*151 — Medieval architecture. Professor SWIFT. 3 points.

Open to qualified seniors.

The evolution of the Early Christian, Byzantine, Carolingian, Romanesque and Gothic styles. In addition to the analysis of the structural development a careful examination will be made of the relation of each architecture to its civilization and to the other arts produced in the same environment.

Not given in 1937-38.]

***153A — Romanesque architecture. Professor SCHAPIRO. 3 points.**

M. and W., 3-4.25. 503 Schermerhorn.

Open to qualified seniors.

Lectures and reports on the architecture of western Europe from the tenth to the twelfth century; a consideration of recent studies in Carolingian architecture, the formation of Gothic style, and the rôle of technical and formal factors in medieval construction.

[*153B — Romanesque sculpture and painting. Professor SCHAPIRO. 3 points.

Open to qualified seniors.

Lectures and seminar reports on the sculpture and painting of the eleventh and twelfth centuries, mainly in France. Principles of form and iconography; relations to the culture of the period, historical development.

Not given in 1937-38.]

***156 — Romanesque art in Italy. Professor LAWRENCE. 3 points.**

M. and W., 3-4.25. 503 Schermerhorn.

Open to qualified seniors.

Architecture, sculpture and painting of the eleventh to thirteenth century in Italy; a study of regional styles from Lombardy and Venice to Apulia and Sicily.

***162 — Architecture of the Renaissance. Professor SWIFT. 3 points.**

M. and W. at 1 and a third hour to be arranged for conference. 407 Avery.

Open to qualified seniors.

A study of the origin and development of Renaissance architecture in Italy and its subsequent history in other parts of Europe.

***163 — Florentine painting of the fifteenth century. Professor MEISS. 3 points.**

M. and Th., 4.35-5.50. 503 Schermerhorn.

Open to qualified seniors.

The history of Florentine painting of this period. Considerations of the principles of "early Renaissance" painting, determination of the successive stylistic phases common to the Florentine and the other Italian schools, and analysis of the work of the chief Florentine painters.

***164 — Italian painting of the fifteenth century outside Florence. Professor MEISS. 3 points.**

M. and Th., 4.35-5.50. 503 Schermerhorn.

Open to qualified seniors. Prerequisite, Course 163 or 65.

The history of painting during this period in Lombardy, Venice, Ferrara, Umbria, the Marches and Rome.

***168 — Art of the Baroque period. Dr. HELD. 3 points.**

M., W. and F. at 9. 503 Schermerhorn.

Open to qualified seniors.

An analysis of the Baroque style in European architecture, sculpture and painting with regard to the problems of its genesis, evolution and historical significance. This course covers the period from the Council of Trent to the French Revolution.

[*172 — **Modern architecture.** Professor SWIFT. 3 points.

Open to qualified seniors.

Types and theories in the structural art of modern times in Europe and America with special emphasis on the evolution of American architecture from the colonial period to the present.

Not given in 1937-38.]

*176 — **European painting since 1860.** Professor SCHAPIRO. 3 points.

Tu. and Th., 11-12.15. 305 Schermerhorn.

Open to qualified seniors who have had Course 75 or the equivalent.

An analysis from the historical viewpoint of the sequence of styles since Impressionism, with a consideration of social determinants.

*191 — **History of Chinese art.** Professor ROWLEY. 3 points.

F., 2-4 and a third hour to be arranged for conference. 408 Avery.

Open to qualified seniors.

An introduction to the history of Chinese art with emphasis upon the growth of style in its reflection of the thought and feeling of the different periods. The ancient bronzes, the Han bas-reliefs and Ku Kai-Chih will be studied as expressions of the indigenous imagination of China. A brief survey of Buddhist art in India and central Asia will establish the iconography for Chinese figure painting, but the chief consideration of the course will be the "philosophic" landscape, which is China's unique contribution to the history of painting.

*193 — **History of Japanese art.** Mr. LANGDON WARNER. 3 points.

Tu., 4-6. 407 Avery.

Open to qualified seniors.

An outline of the development of Japanese art from the introduction of Buddhism to the middle of the sixteenth century. The required reading will cover religious and political history where these are closely connected to the main objects of study.

ARCHAEOLOGY

*100 — **Introduction to ancient archaeology.** Professor DINSMOOR. 3 points.

M. and Th., 4.35-5.50. 407 Avery.

Open to qualified seniors.

The course will include discussions of various fields of archaeological developments in the Mediterranean area, and will be concerned, not with the history of artistic evolution, but with the processes of discovery and methods of study through which our knowledge of this evolution has been attained. Lectures and required reading.

[*157 — **Topography and monuments of Pompeii, Herculaneum and Ostia.**

Professor BIEBER. 3 points.

Open to qualified seniors.

The life and art of these ancient sites in the light of recent excavations and investigations. Emphasis will be laid on architecture and wall-painting. Lectures and reports on assigned topics.

Not given in 1937-38.]

Additional Courses

More advanced courses given at Columbia University are described in the Announcement of the Department of Fine Arts and Archaeology.

FRENCH

A major in French. — Students majoring in French will be required to take in

French — Courses 7-8, 9, 10, 15, 16 and other courses to be arranged in consultation with the department. In special cases, Courses 11, 12 can be substituted for 9, 10. The introductory language courses, 1-2, 3, 4, 5, 6 and 5a, 6a cannot count in the major.

Other fields — Courses which will vary with the special interest of the student and should be arranged in consultation with the major department.

Honors Course (see page 37). — The comprehensive examination assumes: (a) the ability to use French correctly as a mode of expression both in speaking and in writing; (b) a general knowledge of the history of French literature from its origin to the present day; (c) a more thorough knowledge of a century or period.

Students are also expected to show that they have followed courses in Latin, history and philosophy. A reading knowledge in another foreign language is desirable.

See also *The foundations of language*, page 66.

Introductory courses

1-2 — Introductory course. Dr. VARNEY and Mrs. BAILEY. 8 points.

M., Tu., W., Th. and F. at 9.

Grammar, reading, conversation.

3, 4 — Intermediate course. Dr. STURDEVANT and Mrs. BAILEY. 6 points.

M., W. and F. at 1 (I), at 2 (II); Tu., Th. and S. at 9 (III).

Prerequisite, Course 1-2 or two entrance units in French.

Review of grammar and syntax. Translation from and into English. Free composition.

5, 6 — Reading course in modern French. Professor LEDUC, Drs. DE WYZEWA, STURDEVANT and VARNEY, and Mrs. BAILEY. 6 points.

M., W. and F. at 9 (I), at 10 (II), at 1 (III) and at 2 (IV); Tu., Th. and S. at 9 (V).

Prerequisite, Course 3, 4 or three entrance units in French. This course is intended primarily for students wishing to present themselves for the foreign language test in French.

Reading of modern French prose of moderate difficulty; practice in vocabulary, syntax and idiom; reports on outside reading.

5a, 6a — Modern French prose; reading and composition. Drs. DE WYZEWA, STURDEVANT and VARNEY, and Mrs. BAILEY. 6 points.

M., W. and F. at 9 (I), at 10 (II).

Advised for prospective majors in French who have had Course 3, 4 or three entrance units in French and who are not qualified to enter Course 7-8. Open to other students only on written permission of the department.

7, 8 — Masterpieces of literature from the medieval period to the twentieth century. Drs. DE WYZEWA, STURDEVANT and VARNEY. 8 points.

General lecture: Th. at 1 and in sections as follows: M., W. and F. at 10 (I), at 1 (II); Tu., Th. and S. at 10 (III).

Prerequisite, a good grade in Course 4, or four entrance units in French or the equivalent. This course is required of students majoring in French and may be counted toward the major.

Lectures in French on the history of French literature, recitations, free composition, and reports on outside reading.

Language courses

Note. In Courses 9, 10 and 11, 12 phonograph records of the pronunciation of each student will be made from time to time for the purpose of correction or testing individual progress.

9, 10 — Practical phonetics in French. Dr. VARNEY. 4 points.

M. and W. at 1.

Open to students only after consultation with the instructor. Limited to 20 students.

Study of French articulation and intonation, general phenomena covering the spoken language, recitation, and reading aloud.

11, 12 — Advanced practical phonetics. Dr. VARNEY. 4 points.

M. and W. at 11.

Prerequisite, Course 9, 10. Open to majors and specially qualified students after consultation with the instructor.

Review of articulation. Study of intonation curves, interpretation of spoken French and analysis of best French prose and poetry.

13-14 — The regional French novel.¹ Professor MESPOULET. 4 points.

W. and F. at 9.

Open to seniors, juniors and qualified sophomores. Limited to 15 students.

A study of the life and art of several French provinces based on recent novels. Entirely oral.

15, 16 — Advanced composition.¹ Professor LEDUC. 4 points.

Tu. and Th. at 11.

Specially intended for juniors majoring in French, who have the permission of the instructor. Limited to 20 students.

Translation from and into French; oral and written reports on outside reading; short themes; "explication de textes."

17-18 — Oral French: recitation and diction. MEMBERS OF THE DEPARTMENT. 2 points.

Hours to be arranged.

Prerequisite, the written permission from the department.

Limited to a small group of selected students.

The study of a French classical play which will be presented at the end of the year.

Literature courses

Students are reminded that the ability to use French both in speaking and in writing is considered a general requirement for all literature courses.

Course 7, 8 is prerequisite for all literature courses.

21-22 — French literature in the seventeenth century.¹ Professor HOFFHERR. 6 points.

M., W. and F. at 10.

A study of the most significant works of the principal writers of the classical period, from 1600 to 1715.

¹ Conducted entirely in French.

23-24 — French literature in the nineteenth century; the romantic period.¹ Professor MESPOULET. 6 points.

M., W. and F. at 11.

Open to juniors and seniors.

A study of representative works of the romantic movement.

[25, 26 — History of the French novel.¹ Professor LEDUC. 6 points.

A study of the development of the novel in France, from the origins to the twentieth century.

Not given in 1937-38.]

27, 28 — History of the French drama.¹ Professor MULLER. 6 points.

M., W. and F. at 2.

General survey of the development of the French drama from its origin to the present time; the most representative plays of the different periods.

31, 32 — French literature in the sixteenth century.¹ Professor LEDUC.
4 or 6 points.

Tu. and Th. at 10 (4 points); a third hour to be arranged (6 points).

Open to juniors and seniors.

The literature of the sixteenth century with readings from Rabelais, Ronsard, Montaigne, etc.; the development of humanism and foreign influences.

33, 34 — History of French civilization.¹ Professor HOFFHERR. 4 points.

M. and W. at 11.

Open to seniors, juniors and qualified sophomores and freshmen who have the permission of the instructor.

General survey of the development of French civilization from the Roman conquest to the present day; the political, artistic, literary and scientific activities of the French people in the formation of their national life, and their contribution to human progress.

35, 36 — French literature in the eighteenth century.¹ Dr. DE WYZEWA. 6 points.

M., W. and F. at 1.

Prerequisite, Course 21-22 or the permission of the department.

French literature of the eighteenth century. The chief essayists, novelists and dramatists of the period in their most significant works and letters.

125-126 — Contemporary French literature.¹ Professor MESPOULET. 6 points.

W. and F. at 10, and a conference for undergraduates M. at 10.

Open to specially qualified seniors.

Novels, essays, letters that express the most important tendencies and aspirations of recent French prose; and verse that marks the evolution of French lyric poetry from the end of the Parnasse to our own day. The program for the year 1937-38 will cover the period from 1865 to 1895.

Other courses given at Columbia University are described in the Announcement of the Division of Modern Languages and Literatures.

¹ Conducted entirely in French.

GEOGRAPHY, GEOLOGY AND MINERALOGY

GEOGRAPHY

1, 2 — Physical and economic geography. Professor HOLZWASSER. 4 or 6 points in Group II or III.

Tu. and Th. at 9 (4 points); additional hour, Th. at 1 (6 points).

GEOLOGY

A major in Geology. — Students majoring in geology may count geography, geology and mineralogy as one subject. They will be required to take in

Geology — Courses 1-2 and 19, and other courses to be arranged in consultation with the department.

Other fields — Courses will vary with the special interest of the student and must be arranged in consultation with the major department.

1-2 — General geology. Elementary course. Professor OGILVIE and assistant. 8 points.

Lectures: Tu. and Th. at 11. Laboratory (4 hours): M. and W., 2-4, or Tu. and Th., 9-11 or 2-4. Occasional Saturday field trips in the spring.

[5, 6 — Applied geology. Professors OGILVIE (winter session) and HOLZWASSER (spring session). 4 points.

Prerequisite, Course 1-2 or Mineralogy 1 or the permission of the instructor. Either half of this course may be taken separately.

A study of the minerals of economic importance and of the application of geology to present-day industrial and commercial development. Winter session: ore deposits. Spring session: non-metallic minerals of commercial use.

Not given in 1937-38.]

[13 — Summer field course. Professor HOLZWASSER. 2 weeks in the field before opening of summer session and the subsequent preparation of a report. 3 or 4 points.

Prerequisite, Course 1-2.

This course is not given every year. Registration must be made by April 15. The tuition fee of \$40.00 is payable by June 1.

Not given in 1937.]

[15-16 — Paleontology. Professor HOLZWASSER. 6 points.

Prerequisite, Course 1-2.

Not given in 1937-38.]

17-18 — Glacial geology. Professor OGILVIE. 4 points.

W. at 3 and Th. at 1.

Prerequisite or parallel, Course 1-2.

19 — General geology. Second course. Professor OGILVIE. 3 points.

Tu. and Th. at 3.

Prerequisite, Course 1-2.

Structural and dynamic geology.

20 — Advanced historical geology. Professor HOLZWASSER. 3 points.

M., W. and F. at 11.

Prerequisite, Course 1-2.

27, 28 — Physiographic geology. Professor HOLZWASSER. 6 points.

M., W. and F. at 9.

Prerequisite, Course 1-2 or the equivalent.

124 — Advanced glacial geology. Professor OGILVIE. 3 points.

Tu. and Th. at 4.

Prerequisite, Course 1-2.

Lectures, reading, field and laboratory work.

Journal Club. The instructors in Columbia University and advanced students meet one evening fortnightly for the discussion of current papers and problems. The meetings of the Journal Club are open to Barnard students taking courses in geology.

MINERALOGY

[1 — General mineralogy. Professor OGILVIE. 3 points.

Prerequisite, a knowledge of elementary chemistry.

Not given in 1937-38.]

[2 — Blowpipe analysis. Professor OGILVIE. 3 points.

Prerequisite, Course 1.

Not given in 1937-38.]

[12 — Optical mineralogy. Professor OGILVIE. 2 points.

Prerequisite, Course 1.

Not given in 1937-38.]

Other courses given at Columbia University are described in the Announcement of the Division of Geology, Geography and Mineralogy.

GERMANIC LANGUAGES AND LITERATURES

A major in German. — Students majoring in German will be required to take in

German — Courses 9, 10 and 45, 46, 51, and other courses to be arranged in consultation with the department.

Other fields — Courses will vary with the special interest of the student and must be arranged in consultation with the major department.

Honors Course (see page 37). — The comprehensive examination assumes: (a) the ability to speak and write German easily; (b) a general acquaintance with German literature from its beginnings to the end of the nineteenth century; (c) a more thorough knowledge of some particular period; (d) some familiarity with the development of political, economic and social institutions in Germany and with German art. A general knowledge of European history is desirable.

See also **The foundations of language**, page 66.

1-2 — Beginners' course. Mrs. STABENAU and Mr. VON FORSTMAYER. 6 points.

M., W. and F. at 9 (I), at 1 (II); Tu. and Th. at 9 and F. at 2 (III); Tu. and Th. at 11 and F. at 2 (IV).

Elements of grammar, easy reading, written and oral practice.

3, 4 — Intermediate course. Professor PUCKETT, Mrs. STABENAU and Mr. VON FORSTMAYER. 6 points.

M., W. and F. at 10 (I), at 11 (II), at 1 (III).

Prerequisite for Course 3, Course 1-2 or two entrance units in German.

Prerequisite for Course 4, Course 3 or three entrance units in German.

Rapid reading of texts, with practice in writing and speaking German.

5, 6 — Goethe and Schiller. Professor BRAUN (winter session) and Professor PUCKETT (spring session). 6 points.

M., W. and F. at 11.

Prerequisite for Course 5, Course 3, 4 or a good grade in three entrance units in German.

Prerequisite for Course 6, Course 5 or special permission of the instructor.

The course emphasizes literary appreciation rather than practice in the language. A desirable prerequisite to more advanced courses in German literature.

7 — Intermediate reading course. Professor PUCKETT. 3 points.

M., W. and F. at 10.

Prerequisite, Course 3 or the permission of the instructor.

Close reading of texts of moderate difficulty, with special attention to translation and syntax.

Courses 7 and 8 are especially helpful in gaining a more fluent reading knowledge of German for use in other fields, such as science or history, and in preparing for the foreign language test in German.

8 — Modern German prose. Professor PUCKETT. 3 points.

M., W. and F. at 10.

Prerequisite, Course 4 or 7 or the permission of the instructor.

Rapid reading of modern German historical, critical, and scientific prose. Assignments in German newspapers and journals. Structure and development of vocabulary.

9, 10 — Practice course. Mrs. STABENAU. 4 points.

Tu. and Th. at 10.

Prerequisite, Course 3 or a good grade in intermediate entrance German.

Conversation and written exercises.

[18 — German lyric poetry. Professor PUCKETT. 2 points.

Prerequisite, Course 3, 4 or the equivalent.

Not given in 1937-38.]

25, 26 — The drama of the nineteenth century. Professor BRAUN (winter session) and Mrs. STABENAU (spring session). 4 or 6 points.

Tu. and Th. at 9.

Prerequisite, Course 5, 6 or 7, 8 or the equivalent.

Winter session: The earlier nineteenth century dramatists. Spring session: Chiefly Gerhart Hauptmann and the Naturalistic School.

[27 — Prose fiction of the nineteenth century. Professor PUCKETT. 2 or 3 points.

Prerequisite, Course 5, 6 or 7, 8 or the permission of the instructor.

Not given in 1937-38.]

[28 — The literature of the twentieth century. Professor PUCKETT. 2 or 3 points.

Prerequisite, Course 5, 6 or 7, 8 or the permission of the instructor.

Not given in 1937-38.]

29 — German romanticism. Professor PUCKETT. 2 or 3 points.

W. and F. at 9.

Prerequisite, Course 5, 6 or 7, 8 or the permission of the instructor.

[36 — *Goethe's Faust*. Professor BRAUN. 3 points.

Open to juniors and seniors who have had Course 5, 6 or 7, 8 or the equivalent.
Not given in 1937-38.]

[45, 46 — History of German literature from the earliest times to the nineteenth century. Professor BRAUN. 6 points.

Prerequisite, Course 5, 6 or 7, 8 or the equivalent.

Not given in 1937-38.]

51 — German civilization. Professor BRAUN. 2 or 3 points.

Tu. and Th. at 11.

No prerequisite. Open to students of all classes.

Illustrated lectures in English on the development and correlation of German literature, music, art, and philosophy. Reading of representative works in each field, largely in German for students with a reading knowledge of the language (2 or 3 points); in English translation for others (2 points).

Other courses given at Columbia University are described in the Announcement of the Division of Modern Languages and Literatures.

GOVERNMENT

A major in Government. — Students with a major in government should elect in

Government — Courses 1, 2; 3, 4; 7, 8 and beyond these a number of more advanced courses determined in each case in accordance with the field of interest of the student.

In advanced work in the department a division of interest is recognized between

A — American government, politics and constitutional law, and

B — International relations and comparative government.

Because of the close relationship between the subject matter of history and that of government students majoring in government may offer as part of the required 28 points, 6 points in history including a choice of History 1-2; 9, 10; 11, 12; or 97, 98. In like manner majors in history may offer courses in government. (See page 91.)

Other social sciences. — In view of the essential unity of all the social sciences every major in government must, in addition to the major requirement described above, elect from the following courses a minimum of 6 points in each of two social science departments:

Anthropology 1, 2; 3, 4; 109;

Economics 1-2; 13, 14; 17, 18; 27, 28;

History 1-2; 9, 10; 11, 12; 19, 20; 51, 52; 97, 98;

Philosophy 1; 21-22; 61-62; 68;

Psychology 1, 38;

Sociology 1-2; 41, 42; 53, 54.

Honors Course (see page 37). — Candidates for honors in government will be examined both orally and by written paper. A detailed statement of honors requirements is available on application to the department.

1, 2 (old number **3, 4**) — An introduction to American public affairs. Dr. CLARK. 6 points.

M., W. and F. at 1.

Open to all students including freshmen. Course 1 is prerequisite for Course 2.

A survey of contemporary American public problems, including the organization and functions of the federal government, the relation of the states to the nation, the leadership of the executive and the process of administration, law and legislation, the judicial system and the administration of justice, the party system and the problems of city government; the governmental regulation and protection of business and labor, the conservation of natural resources and the promotion of public welfare, health and education.

3, 4 (old number **1, 2**) — The governments of modern Europe. Professor PEARDON. 6 points.

M., W. and F. at 11.

Open to all students excepting freshmen. Course 3 is prerequisite for Course 4.

A survey of the governments and political problems of modern European states. Winter session: England. Spring session: France, Germany, Switzerland, Italy, and Russia, with some reference to significant features of the governments of other continental countries.

[7, 8 — American political life. Professor MOLEY. 4 points.

Open to all excepting freshmen. Specially intended for students not majoring in government who desire a broad survey of the subject matter of American politics.

American politics chiefly considered in the light of the ideas, achievements and influence of important political leaders such as Jefferson, Hamilton, Marshall, Lincoln, Hanna, Theodore Roosevelt, Wilson and F. D. Roosevelt, and of such interpreters of American life as Emerson, Whitman, Mark Twain and Henry Adams.

Not given in 1937-38.]

11 — International relations and world politics. Dr. DEAN. 2 points.

Th., 2-4.

Open to juniors and seniors, and after consultation with the department, to specially qualified sophomores.

A study of contemporary world politics with special reference to the basic factors — geographic, economic, political, traditional, etc. — that enter into the foreign policies of states.

23, 24 — Government and social security. Dr. CLARK. 6 points.

M. and W. at 2.

Prerequisite, 6 points in government, economics or sociology.

The relationships of government to social security, with particular reference to the methods of social control by government. Such subjects as housing, child welfare, labor, and social insurance are examined in tracing the development of such control.

Courses 23, 24 and 25-26 will ordinarily be given in alternate years.

[25-26 — Constitutional law of the United States. Dr. CLARK. 6 points.

Prerequisite, Course 1, 2.

The federal system; protection of persons accused of crime; citizenship; international relations; money; regulation of commerce; due process of law; equal protection of the laws; the police power.

Not given in 1937-38.]

31, 32 — The history of political thought. Professor PEARDON. 6 points.

Tu. and Th. at 10.

Open to sophomores, juniors and seniors. Course 31 is prerequisite for Course 32.

A study of the development of political ideas from the Greeks to recent times.

41, 42 — The practice of politics. Dr. CLARK. 6 points.

Hours to be arranged.

Prerequisite, 6 points in government and special permission of the department.

First-hand observation and study in coöperation with various civic organizations of problems of local, state and national government, political party activity, and of the process of administration.

61, 62 — Seminar for majors. Professor PEARDON. 4 points.

Tu., 2-4.

Open only to government majors.

Selected subjects in politics, public administration and jurisprudence.

Graduate courses

Note: The following graduate courses in the Department of Public Law may be taken by specially qualified seniors. Students who desire to elect any of them must secure the approval of the Department of Government at Barnard. Ordinarily a min-

imum of 6 points of government in addition to a major interest in the social sciences is required as a prerequisite.

GOVERNMENT

[*117-118 — Contemporary American politics. Professor MOLEY. 6 points.

The course deals with the significant tendencies in American political life. Although stressing matters on which the parties differ, it also deals with the large questions of public policy in which the alternatives are not yet defined for the purposes of partisan controversy. On the side of machinery, the course is a study of the methods, not only of political parties, major and minor, but also of leagues and other organized groups, and of the political significance of newspapers, radio and other organs of so-called public opinion.

Not given in 1937-38.]

***141-142 — European political institutions. Professor LINDSAY ROGERS. 6 points.**

Tu., 4.35-6.15. 401 Fayerweather.

A comparative survey of the political institutions of Europe, the chief problems which confront them, the organization and programs of political parties, and the non-political institutions which are germane to the development and work of the state.

PUBLIC LAW

***171-172 — Modern ideas of the state. Professor MACIVER. 6 points.**

W., 4-6. 401 Fayerweather.

This course may count toward a major in sociology.

A review of the course of political thought from Machiavelli to the present, with more emphasis on the period since Rousseau; modern theories of sovereignty, of the functions, powers, and limits of the state. Present-day assaults on the principle of representative government, and of democracy in general.

Other courses offered at Columbia University are open to Barnard students under the conditions mentioned in the foregoing *Note*.

GREEK AND LATIN

A major in Greek, or in Latin, or in Greek and Latin combined. — Students majoring in Greek, or in Latin, or in Greek and Latin combined will be required to take courses to be elected in appropriate sequence under the direction of the department. Toward a

Major in Greek — Any courses in Greek and 4 points in Archaeology or Civilization may count.

Major in Latin — Any courses in Latin and 4 points in Archaeology or Civilization may count.

Major in Greek and Latin combined — The following combinations are possible: (a) 18 points of Greek, 10 points of Latin; (b) 18 points of Latin, 10 points of Greek. No points in Archaeology or Civilization may count.

At least one course in Greek composition and one course in Latin composition are strongly recommended. Students will find it profitable to take courses in Greek history, or in Roman history, or in both (History 5, 6; 15, 16; 17, 18), and courses in Archaeology and Civilization.

Other fields — The work in other fields will vary with the special interest of the student and should be arranged in consultation with the major department.

Honors Course (see page 37). — The comprehensive examination assumes a general knowledge of the languages, the literature, and the civilization of (ai) ancient Greece and (aii) ancient Rome; (b) a more thorough knowledge of either (ai) or (aii); (c) a special knowledge of some particular problem, author or work within (b); (d) a reading knowledge of French and German; (e) necessary acquaintance with subjects cognate to those involved in (c).

See also *The foundations of language*, page 66.

ARCHAEOLOGY AND CIVILIZATION

Students majoring in Latin or in Greek may count courses in Archaeology and Civilization either toward their major or toward the 14-point requirement in the group

indicated for each course by the statement made in connection with the point value, but not to cover both requirements. For all other students courses in Archaeology and Civilization will count toward the 14-point requirement in the group indicated for each course by the statement made in connection with the point value.

ARCHAEOLOGY

61, 62 — Centers of Hellenic civilization. Dr. DAY. 4 points in Group III.
Tu. and Th. at 3 and occasional visits to the Metropolitan Museum of Art.
Open to all excepting freshmen.

A study of life at certain Greek cities and sanctuaries of the Prehellenic, Hellenic, and Hellenistic periods, as revealed by existing monuments.

[63, 64 — Greek arts and crafts. Dr. DAY. 4 points in Group III.
Open to all excepting freshmen.

A study of Greek life as reflected by vases, coins, and other minor arts.

Not given in 1937-38.]

71 — The Greek theatre of the archaic and classical period. Professor BIEBER.
3 points in Group I.

Tu. and Th. at 9 and a third hour to be arranged..

Development of the satyr-play, tragedy, comedy, and the theatre building, based on literary evidence and particularly on monuments and objects of art. The third hour will be used for the reading (in translation) of tragedies, one by each of the three great tragedians and one comedy of Aristophanes, with commentary on the staging of the plays.

72 — The Hellenistic and Roman theatre. Professor BIEBER. 3 points in Group I.

Tu. and Th. at 9 and a third hour to be arranged.

The evolution of the art of acting, the New Comedy, the Italian farce, the Roman plays, the Hellenistic and Roman theatre buildings. The third hour will be used for the reading (in translation) of comedies of Plautus and Terence and the demonstration of Greek and Roman dress.

CIVILIZATION

49, 50 — Greek life and thought. Dr. DAY. 4 points in Group III.
Tu. and Th. at 10.

Open to students of all classes.

A portrayal of Greek civilization.

53, 54 — Roman life and thought. Dr. DAY. 4 points in Group III.
Tu. and Th. at 2.

Open to students of all classes.

55, 56 — Greek literature in translation. Dr. REILEY. 4 points in Group I.
Tu. and Th. at 11.

Open to students of all classes.

Winter session: Homer, Hesiod, lyric poetry, Herodotus and Thucydides. Spring session: The drama, oratory and philosophy.

GREEK LANGUAGE AND LITERATURE

1-2 — First course. Professor HIRST. 3 recitations, 2 hours unprepared work in class-room. 8 points.

M., Tu., W., Th. and F. at 2.

Prerequisite, elementary Latin.

Grammar, composition, selected readings in prose and verse; selections from Homer's *Iliad*. This course may not be begun in the spring session.

11 — Homer: *Odyssey*; Lucian: selections. Dr. DAY. 3 points.

M., W. and F. at 10.

Prerequisite, Course 1-2 or three entrance units in Greek.

12 — Plato: *Apology*; Euripides (one play). Professor HIRST. 3 points.

M., W. and F. at 10.

Prerequisite, Course 1-2 or three entrance units in Greek.

19-20 — Prose composition. First course, Dr. DAY. 2 points.

Hour to be arranged.

May be taken in connection with any reading course in Greek (except 1-2), but not separately, except by special permission; particularly recommended to students who have taken only Course 1-2. This course may be taken for credit in two different years.

[**21 — Greek tragedy.** ——. 3 points.

Prerequisite, Course 11 or 12 or 25 or 26.

Not given in 1937-38.]

[**22 — Greek comedy.** Professor VAN HOOK. 3 points.

Prerequisite, Course 11 or 12 or 25.

Not given in 1937-38.]

25 — Selections from Herodotus: *book I*. Professor HIRST. 2 points.

Tu. and Th. at 11.

Prerequisite, Course 1-2 or three entrance units in Greek.

The story of Croesus and the contemporary history of Greece.

26 — Thucydides: *book VII*. Professor HIRST. 2 points.

Tu. and Th. at 11.

Prerequisite, Course 11, 12 or 25.

Athens and the Syracusan Expedition.

29-30 — Prose composition. Second course. Professor KEYES. 2 points.

Hour to be arranged.

Prerequisite, Course 19-20, or the equivalent.

May be taken in connection with any reading course in Greek, but not separately, except by special permission. This course may be taken for credit in two different years.

***103, 104 — Greek literature. *Part II, prose*.** Professor VAN HOOK. 6 points.

Tu. and Th. at 4. 302 Philosophy.

Prerequisite, Course 21 or 22 or 25 or 26.

General survey, with extensive reading, in Greek, of Greek poetry.

***139-140 — Prose composition.** Advanced course. Professor VAN HOOK. 4 points.

Hour to be arranged.

Prerequisite, Course 29-30. Open to specially qualified seniors.

See also Archaeology, pages 78 and 88, Civilization, page 88, and History (Courses 5, 6, 15, 16, 17, 18), pages 92-93.

LATIN LANGUAGE AND LITERATURE

3 — Selections from Vergil: *Aeneid I-VI*. Dr. CLAFLIN. 3 points.

M., W. and F. at 9.

Prerequisite, two or three entrance units in Latin. Course 19-20 is strongly recommended as a parallel.

Parts of the *Aeneid* will be read and the poem will be studied as a whole.

4 — Cicero: *De Senectute*; Ovid, selections from the Elegiac Poems. Dr. CLAFLIN. 3 points.

M., W. and F. at 9.

Prerequisite, Course 3, or the equivalent. Not open to students who have had any reading course beyond Course 11, 12.

11 — Livy: selections; Catullus: selections. Professor HIRST. 3 points.

M., W. and F. at 1.

Prerequisite, Course 3, or the equivalent in entrance Latin. Course 19-20 is strongly recommended as a parallel.

12 — Horace: selected *Odes* and *Epodes*. Dr. DAY. 3 points.

M., W. and F. at 1.

Prerequisite, Course 11.

[17-18 — Lectures on Latin literature. 2 points.

Open to students who are taking any reading course in Greek or Latin; particularly recommended to students in Courses 11 and 12.

Not given in 1937-38.]

19-20 — Latin composition. First course. Dr. DAY. 2 points.

M. at 3.

May be taken in connection with any reading course in Latin, but not separately, except by special permission. Strongly recommended as a parallel to Courses 3, 4 and 11, 12. This course may be taken for credit in two different years.

21 — Horace: *Satires, Epistles*. —. 3 points.

M., W. and F. at 9.

Prerequisite, Courses 11 and 12.

22 — Juvenal; Martial; Pliny. Professor HIRST. 3 points.

M., W. and F. at 9.

Prerequisite, Courses 11 and 12.

Roman life and thought in the early Empire.

[25 — Vergil: *Aeneid VII-XII*. Professor HIRST. 2 points.

Prerequisite, Courses 11 or 12 and 21 or 22.

Not given in 1937-38.]

[26 — Lucretius: selections. Dr. DAY. 2 points.

Prerequisite, Courses 11 or 12 and 21 or 22.

Not given in 1937-38.]

27 — Tacitus: *Annals XIII–XVI*, selections. Professor HIRST. 2 points.

Tu. and Th. at 9.

Prerequisite, Courses 11 or 12 and 21 or 22.

28 — Ovid: selections. Dr. DAY. 2 points.

Tu. and Th. at 9.

Prerequisite, Courses 11 or 12 and 21 or 22.

29–30 — Prose composition. Second course. —. 2 points.

Th. at 1.

Prerequisite, Course 19–20.

May be taken in connection with any reading course in Latin, but not separately, except by special permission. This course may be taken for credit in two different years.

37, 38 — Plautus and Terence: selected plays; Cicero: *Tusculanae Disputationes I*. Mr. HIGHET. 6 points.

Tu. and Th. at 3 and a third hour to be arranged.

Prerequisite, Courses 21, 22 or 25, 26 or 27, 28.

Courses 37, 38 and 41, 42 will ordinarily be given in alternate years.

[41, 42 — Latin literature. 6 points.

Selections from Ennius, Plautus, Lucretius, Vergil, Ovid, and Seneca.

Not given in 1937–38.]

***139–140 — Prose composition.** Advanced course. —. 4 points.

Hour to be arranged. 310 Business.

Prerequisite, Course 29–30. Open to specially qualified seniors.

See also Archaeology, pages 78 and 88, Civilization, page 88,
and History (Courses 5, 6, 15, 16, 17, 18), pages 92–93.

HISTORY

A major in History. — Students majoring in history should elect in

History — Course 1–2 and at least two other general courses, such as those offered in ancient, medieval, English or American history (Courses 5, 6; 7, 8; 9, 10; 11, 12). They should then concentrate their attention on some special field in which to do work of a more advanced character, such as that offered in Courses 15, 16; 17, 18; 19, 20; 51, 52; 61, 62; 73, 74; 77, 78; 97, 98; 105, 106; 123, 124; 149, 150.

On account of the close relationship between the subject matter of history and that of government, history majors may offer as part of the 28 points of the major requirement 6 points in government selected from Courses 1, 2; 3, 4; 7, 8.

Other social sciences. — In view of the essential unity of the social sciences, majors in history must elect from the following courses 12 points distributed in two social sciences other than history:

Anthropology 1, 2; 3, 4; 107, 108; 109, 110;
Classical Civilization 49, 50;
Economics 1–2; 13, 14;
Government 1, 2; 3, 4; 7, 8; 11; 23, 24;
Psychology 1; 38;
Religion 3, 4;
Sociology 1–2.

History majors must acquire a reading knowledge of some foreign language.

With the work in history they may combine work in other departments to make up a group of correlated courses on some large subject, such as ancient history and philosophy or art, modern history and international relations or sociology, English history and literature or government, American history and economics, the history of thought and culture.

Honors Course (see page 37). — Candidates for honors will be examined both orally and by written paper on one of the following fields of history: ancient, medieval, modern European, Eng-

lish, American. In addition they will be expected to know something of the chief historians and their works in the various fields of history, as well as to have an appreciation of the types and methods of historical study and writing. A detailed statement of honors requirements is available on application to the department.

I. Introductory course

1-2 — Survey of modern European history from the age of discovery to the close of the World War. Professor HUTTMAN, Miss YOUNG and Mme. MURET. 6 points.

M., W. and F. at 9 (I), at 11 (II) and also at 11 (III) primarily for juniors and seniors, Tu., Th. and S. at 10 (IV).

Open to students of all classes.

Winter session: Foundations of modern Europe; political, economic and intellectual achievements from the fifteenth century to the eighteenth; the British, French and American Revolutions; the era of Napoleon and the Congress of Vienna. Spring session: The Industrial Revolution; rise of nationalism; social, intellectual and economic problems of the nineteenth century; imperialism and world politics; causes, character and consequences of the World War.

II. General courses

5, 6 — The civilization of the ancient world. Professor OLIVER. 6 points.

M., W. and F. at 9.

Open to specially qualified freshmen on permission of the department. Fine Arts 41 is recommended as a parallel to this course.

The Orient, Greece and Rome. Class discussion of selected topics.

7, 8 — Europe in the Middle Ages. Mrs. HELLER. 4 or 6 points:

Tu. and Th. at 11 (4 points); additional hour, F. at 2 (6 points):

Open to all excepting freshmen. Fine Arts 51, 52 is recommended as a parallel to this course. Course 7 is prerequisite for Course 8.

The history of the Middle Ages from the decline of the Roman Empire through the Renaissance; political movements and theories; social and economic organization; religious, intellectual and artistic life.

9, 10 — History of the American nation from colonies to world power. Miss YOUNG. 6 points.

M., W. and F. at 11.

Open to sophomores, juniors and seniors, and to specially qualified freshmen on permission of the instructor.

Foundations of American nationality in the colonial era; political and social aspects of the Revolution, the Confederation and the Constitution; rise of democracy; conflict between nationalism and sectionalism; Civil War and reconstruction; modern industrialism and capitalism; foreign relations and American participation in the World War.

11, 12 — Political and social history of England from the Norman Conquest to the World War. Professor HUTTMAN. 4 or 6 points:

Tu. and Th. at 2.

Open to sophomores, juniors and seniors, and to specially qualified freshmen on permission of the instructor.

Life in medieval England; the making of the Constitution; Tudor England; the separation from Rome; the Elizabethan Age; the Puritan Revolution. The expansion of England; political and social reforms of the nineteenth century; the Irish question; the Labour Party; international relations; the World War.

III. More advanced courses

[15, 16 — History of the ancient Orient and of Greece. Professor OLIVER.
6 or 8 points.

Open to all excepting freshmen. Fine Arts **41** is recommended as a parallel to this course.

A short survey of the ancient Orient; Greek civilization in its three "stages": Helladic, Hellenic and Hellenistic; fifth century Athens, as the highest type of Greek culture, and the Hellenistic Age, as the period of cultural transmission; a brief treatment of the rise of Rome and her conquest of the Mediterranean world.

Not given in 1937-38.]

Courses **15, 16** and **17, 18** are ordinarily given in alternate years.

17, 18 — History of Rome. Professor OLIVER. 6 or 8 points.

M., W. and F. at 1.

Open to all excepting freshmen.

A brief survey of the history of early Rome and the Republic and a more detailed study of the Empire.

[19, 20 — The United States since 1890. Miss YOUNG. 4 or 6 points.

Prerequisite, Course **9, 10.**

A study of some of the significant developments in the history of the United States, from 1890 to the election of 1932. The method of the course will be the consideration of specific problems in industrial, social, economic, political, and diplomatic history, with practice in the use of source materials.

Not given in 1937-38.]

51, 52 — Pre-war and post-war Europe. Professor HUTTMAN. 6 points.

M., W. and F. at 10.

Open to juniors and seniors and to sophomores on permission of the instructor.

Course **51** is prerequisite for Course **52** except on permission of the instructor.

Political and social development of France, Germany, Russia and Italy since 1890. The Near East; the new imperialism; partition of Africa; international relations; the World War; the Peace Conference, the new Europe.

61-62 — The French Revolution and Napoleon. Mme. MURET. 6 points.

Tu. and Th. at 9, and Th. at 1.

Open to all excepting freshmen.

A study of the Revolution. The background of eighteenth-century Europe. Origins of the Revolution, its political and social doctrines. The Napoleonic era and the spread of revolutionary ideas. Reaction and the Congress of Vienna.

[73, 74 — The British Empire. Professor HUTTMAN. 4 or 6 points.

Not given in 1937-38.]

[77, 78 — Medieval civilization and the Renaissance. Professor BYRNE.
6 points.

Open to all excepting freshmen. A fine arts course to be selected from **51, 52, 62, 65, 66** is recommended as a parallel to this course.

Winter session: The social and cultural history of the Middle Ages with emphasis upon developments in the twelfth and thirteenth centuries.

Spring session: Politics and society in the fourteenth, fifteenth and early sixteenth centuries.

Not given in 1937-38.]

[81, 82 — Seminar in historical study. Professor BYRNE. 4 points.

Required of honor students and open to students majoring in history upon approval of the department.

Not given in 1937-38.]

97, 98— History of American foreign relations. Miss YOUNG. 4 or 6 points.

Tu. and Th. at 10.

Preceding or parallel, Course 9, 10.

International relations of the American people from independence to world power. An attempt to understand the expansive forces of American national life in their relation to an evolving foreign policy. An analysis of the varied international interests of Americans and of such representative policies as isolation, the Monroe Doctrine, the open door, and the freedom of the seas.

IV. Graduate courses

Note: The following graduate courses in history, offered by the Faculty of Political Science, are open to specially qualified seniors. Written approval in advance of election and registration must be obtained from the chairman of the Barnard section of the Department of History. Ordinarily such approval will be granted only to students who have completed at least 18 points of history in Barnard, but in particular cases the department may consider as equivalent thereto other courses in the social sciences.

[*105-106 — History of European thought and culture. Professor MUZZEY. 6 points.

The intellectual development of man; the thought and culture of the ancient civilizations; the philosophy and institutions of the Middle Ages; the birth of the scientific spirit and subsequent movements and speculation in various fields of religious, intellectual and social interest.

Not given in 1937-38.]

[*123, 124 — Social and economic history of the Middle Ages. Professor BYRNE. 6 points.

Except by special permission Course 123 is prerequisite for Course 124.

A study of medieval life from the fifth to the fourteenth century: the manor, the guilds, the rise of the towns, with special emphasis upon the growth of trade and of commercial institutions.

Not given in 1937-38.]

*175, 176 — History of Chinese civilization. Professor GOODRICH. 6 points.

M. and W. at 10 and a third hour to be arranged. 106 Low.

Winter session: An historical study of Chinese culture from the earliest times to the end of the T'ang dynasty (A.D. 907). Political history only in so far as it is needed as a framework and background for an understanding of the cultural history of the people; emphasis on recent archaeological discoveries in China and central Asia and on early connections between the civilization of China and that of the west.

Spring session: The history from the end of the T'ang dynasty (A.D. 907) to 1800.

*181, 182 — The establishment of the American nation, 1492-1829. Professor KROUT. 6 points.

S., 9-10.40 and a third hour to be arranged. 301 Fayerweather.

A survey of the European background of American history and the establishment in the New World of European institutions of contrasted types; the English settlements, their development and their experience with the colonial system seeking to protect and control them, resulting finally in revolt, union, and organization, of the United States; the struggle for American neutrality; the development of national parties; the problems of territorial expansion.

Other courses in history numbered 100-200, offered by the Faculty of Political Science, may be taken by specially qualified Barnard seniors with the approval of the department.

HYGIENE

A1-A2 — Personal hygiene. Dr. ALSOP. 2 points. (See note below.)

Tu. at 11 (I), at 2 (II); Th. at 1 (III); F. at 11 (IV).

Prescribed for freshmen.

A study of the laws of health.

Note. Subject to the approval of the Associate Dean, special work can be arranged for students who plan to apply for a teacher's license in New Jersey, so that the course can be taken for 3 points.

ITALIAN

A major in Italian. — Students majoring in Italian will be required to take in

Italian — Courses 5, 6; 11-12; 13, 14; 15-16; 17, 18; 19, 20; 21-22, and other courses to be arranged in consultation with the department.

Other fields — Classical Civilization 57, 58; English 53; Fine Arts 51, 52, 62, 65; History 7, 8, 105, 106; Philosophy 61-62.

Two years of French or German.

Honors Course (see page 37). — The comprehensive examination assumes: (a) the ability to speak and write Italian with facility; (b) a general knowledge of Italian literature from its origin to the present day; (c) a more thorough knowledge of some particular century or period; (d) some familiarity with the development of Italian political, economic and social institutions and with Italian art; (e) a reading knowledge of French or German or Latin or Spanish.

Language courses

1-2 — Elementary course. Professor RICCIO and Miss CARBONARA. 6 points.

M., W. and F. at 9.

Grammar, reading, composition and conversation.

This course may not be taken at the same time as Spanish 1a-2a.

5, 6 — Practice course. Miss CARBONARA. 4 points.

Tu. and Th. at 11.

Preceding or parallel, Course 13, 14.

Written and oral composition.

[11, 12 — Advanced Italian composition. Miss CARBONARA. 4 points.

Prerequisite, Course 5, 6 or 13, 14.

Written and oral discussion of important literary works.

Not given in 1937-38.]

Literature courses

13, 14 — Practical course and introduction to Italian literature.¹ Professor RICCIO and Miss CARBONARA. 6 points.

Tu. and Th. at 9 and a third hour to be arranged. 501 Casa Italiana.

Prerequisite, Course 1-2.

Reading of selected works by representative authors; rapid review of grammar; composition and conversation.

[15-16 — Dante and medieval culture.¹ Miss CARBONARA. 6 points.

Prerequisite, Course 13, 14.

A study of Dante, his poetry and his times.

Not given in 1937-38.]

¹ Conducted entirely in Italian.

[17, 18 — The Italian Renaissance.¹ Miss CARBONARA. 6 points.
Prerequisite, Course 13, 14.

Italian literature from Petrarch to Tasso.

Not given in 1937-38.]

[19, 20 — Italian civilization. Miss CARBONARA. 6 points.
Open to students of all classes. Conducted in English.

A discussion of Italy's chief contributions to European culture.

Not given in 1937-38.]

21, 22 — Special reading.¹ Professor RICCIO and Miss CARBONARA. 4 or, with the permission of the instructor, 6 points.

Hours to be arranged.

Required of candidates for honors in Italian and of major students. With the permission of the department this course may be taken in two different years.

25-26 — Italian dramatic literature. Professors BIGONGIARI and PREZZOLINI, and Miss CARBONARA. 6 points.

M., W. and F. at 10.

Open to juniors and seniors. Conducted in English.

A study of the history of the Italian drama from the beginning to modern times, with special attention to the periods in which the influence of the Italian theatre has made itself felt in Europe at large.

***101-102 — Introduction to the history of Italian literature.¹ Professor BIGONGIARI. 6 points.**

M. and W. at 3 and a third hour to be arranged. 501 Casa Italiana.

Open only to seniors who have the permission of the instructor.

An introductory study of Italian literature with special emphasis on the history of philosophical, religious and scientific questions.

***153 — Contemporary Italian literature.¹ Professor RICCIO. 6 points.**

S., 9.15-10.55. 501 Casa Italiana.

Open only to seniors who have the permission of the instructor.

This course will trace the development of modern Italian literature with particular emphasis on the growth of new criticism and on the works of such writers as Croce, Palazzeschi, Papini, Gentile, Pirandello, Panzini, Soffici, and Baldini.

[*155-156 — Italian literature in the nineteenth century.¹ Professor RICCIO. 6 points.

Open only to seniors who have the permission of the instructor.

This course will trace the history and describe the characteristics of Italian literature since the beginning of the nineteenth century.

Not given in 1937-38.]

Other courses given at Columbia University are described in the Announcement of the Division of Modern Languages and Literatures.

LATIN. See Greek and Latin

¹ Conducted entirely in Italian.

MATHEMATICS

The courses in mathematics are arranged in two sequences, either of which is suitable for students electing mathematics as a cultural subject.

Sequence A is designed for students whose major interest lies in mathematics or in physics. In the courses of this sequence emphasis is placed on the formal and logical development of the subjects and also on the technic of operations and processes involved.

Sequence B is designed to meet the needs of students whose major interest lies in natural sciences other than physics, or in the social sciences. In the courses of Sequence B emphasis is placed on the practical application of elementary mathematics in the fields of science and social science. The cultural and vocational aspects of trigonometry, analytic geometry, the calculus, elementary mathematical statistics and graphical methods are stressed.

The arrangement of courses in both sequences admits of considerable flexibility. For example, a student who has elected in her freshman year courses in Sequence B can, without any handicap, change to Sequence A at the beginning of her sophomore year. A similar shift may be made from Sequence A to Sequence B, but students must consult the department to avoid duplication of work.

A major in Mathematics. — Students majoring in mathematics will be required to take in

Mathematics — 28 points selected from Sequence A. With the approval of the department courses in Sequence B may also count toward the major.

Other fields — The work will vary with the special interest of the student and must be arranged in consultation with the major department.

Honor course (see page 37). — The comprehensive examination assumes: (a) a general knowledge of algebra, geometry and analysis; (b) a more thorough acquaintance with one of these divisions and of a special field within it; (c) familiarity with the history and literature of mathematics, including the ready use of French and German texts; (d) a fair knowledge of a second subject approved by the department and selected from a list including the sciences generally as well as other appropriate departments of knowledge. For further information and adjustment of requirements to individual cases, candidates should consult the officers of the department.

Sequence A

1 — Trigonometry. Dr. LORCH. 3 points.

M., W. and F. at 9.

22 (or 21r) — Analytic geometry. Dr. LORCH. 3 points.

Winter session only: **21r** — M., W. and F. at 2.

Spring session only: **22** — M., W. and F. at 9.

Prerequisite, Course **1** or Course **7**, Sequence B.

Introduction to the analytic geometry of the plane and of space.

24 — Algebra and theory of equations. Dr. LORCH. 3 points.

M., W. and F. at 2.

Prerequisite, Course **1** or Course **7**, Sequence B.

Complex numbers, theory of equations, determinants, series and exponential functions, partial fractions, mathematical induction.

28 — Projective geometry. Professor MULLINS. 3 points.

M., W. and F. at 2.

Prerequisite, Course **22** or Course **7-8**, Sequence B.

29 — See Sequence B.

31-32 — Calculus. Professor SMITH. 6 points.

M., W. and F. at 10.

Prerequisite, Course **22** or Course **7-8**, Sequence B.

Differential and integral calculus.

33 — Calculus. Professor MULLINS. 3 points.

M., W. and F. at 2.

Prerequisite, Course **31-32**.

Continuation of the study of calculus.

44 — The theory of space and time. Professor SMITH. 3 points.

Tu. and Th. at 10, and F. at 1.

Prerequisite, Course **31-32**.

Foundations of Euclidean geometry; transformations and groups; non-Euclidean geometry; the special theory of relativity.

45 — Analytic geometry of space and hyperspace. Professor SMITH. 3 points.

Tu. and Th. at 10, and F. at 1.

Prerequisite, Course **31-32**.

Modern methods in solid analytics. Vectors, matrices, groups, quadratic forms.

47 — Elementary theory of numbers. Dr. LORCH. 3 points.

M., W. and F. at 3.

Prerequisite, Courses **1** and **22** or Course **7-8**.

A study of the properties of whole numbers. A variety of important and historically interesting problems will be discussed on an entirely elementary basis. Among the topics to be dealt with are: divisibility; Euclid's algorithm; prime numbers; diophantine equations; Fermat's theorem; modules and ideals; quadratic residues.

[56 — Differential equations. Professor SMITH. 3 points.

Prerequisite, Course **33**.

An elementary course in differential equations.

Not given in 1937-38.]

58 — Higher algebra. Dr. LORCH. 3 points.

M., W. and F. at 3.

Prerequisite, Course **31-32**.

The theory of determinants and matrices with applications. Systems of linear equations. Symmetric functions, elimination theory.

[133, 134 — Fundamental concepts of modern mathematics. Professor KASNER.

Preceding or parallel, Course **31-32**.

A general survey emphasizing the bearing of higher theories on elementary mathematics and the historical evolution of ideas. Topics treated: transformations and groups, point-sets and topology, imaginary and hypercomplex numbers. Applications to physics.

Not given in 1937-38.]

Courses **133, 134** and **135, 136** are ordinarily given in alternate years.

135, 136 — General introduction to higher mathematics. Professor KASNER. 6 points.

M., W. and F. at 11.

Preceding or parallel, Course **31-32**.

Development of the number system. Modern theory of infinity. Elementary geometry of four dimensions; vector geometry; conformal representation. Groups, finite and continuous. Non-Euclidean and n -dimensional geometry. Mathematical physics.

Sequence B

7-8 — Mathematical analysis. Professor MULLINS. 6 points.

M., W. and F. at 11.

Winter session: Coördinates, graphs, frequency curves, index notation, common logarithms and their application, trigonometry and its application. Spring session: Analytic geometry: the straight line, the circle, the conic sections and exponential curves. Elementary treatment of the calculus and its application in finding rates, maximum and minimum values and areas. Graphical solution of polynomial equations.

[29 — Graphical and numerical methods. Professor MULLINS. 3 points.
Prerequisite, Course 7-8 or Course 22, Sequence A.

Nomographic charts for calculation, solution of equations by graphical and numerical methods, numerical integration, numerical solutions of differential equations.

Not given in 1937-38.]

MUSIC

A major in Music. — The courses in music are grouped under three main headings:

A. Literature and history.

B. Theory.

C. Applied music.

Students majoring in music should select one of the first two branches. They must take elementary work in both branches and advanced courses in one of them.

Other fields — Courses in other departments, depending upon the need of the individual.

Practice rooms. The department provides practice rooms for the use of students of organ and piano. Preference is given in assigning hours to those enrolled in courses given by the department. Application for practice time on the piano should be made to the comptroller's office, 107 Milbank. Organ students should apply to the department secretary, 601 Journalism.

Library. The department maintains in Room 701 Journalism a lending library of books and scores available to all students of the University. In addition, there is a laboratory of reproducing music for the use of students. Books, scores and records and a phonograph room are also available at the Barnard College Library.

A. Literature and history

***1-2 — A survey of music.** Professor MOORE. 4 or 6 points.

Tu. and Th. at 11 (I), also at 10 (II) for seniors only, and additional drill at hours to be arranged (4 points); additional hour (sight singing) F. at 3 (6 points).
703 Journalism.

Winter session: The materials of music. A study of the elements of musical structure designed to form intelligent habits of listening to music. No previous knowledge of music is required. Spring session: Analytical study of selected masterpieces of music. Two papers will be required based upon a designated bibliography and attendance at concerts.

***3 — Beethoven.** Professor MASON. 2 points.

M. and W. at 10. 703 Journalism.

Prerequisite, except by special permission, a grade of A or B in Course 1-2.

***4 — Romantic composers.** Professor MASON. 2 points.

M. and W. at 10. 703 Journalism.

Prerequisite, except by special permission, a grade of A or B in Course 1-2.

Schubert, Schumann, Mendelssohn, Chopin, Liszt, Berlioz, and program music up to Richard Strauss.

[*5 — Post-romantic composers. Professor MASON. 2 points.

Prerequisite, except by special permission, a grade of A or B in Course 1-2.

Grieg, Dvořák, Saint-Saëns, César Franck, Tchaikowsky, D'Indy, and Elgar.

Not given in 1937-38.]

[*6 — Brahms. Professor MASON. 2 points.

Prerequisite, except by special permission, a grade of A or B in Course 1-2.

Not given in 1937-38.]

***9-10 — History of music.** Professor LÁNG. 4 points.

Tu. and Th. at 9. 703 Journalism.

Prerequisite, Course 1-2 or its equivalent.

A rapid survey of the history of music from the beginning of the Christian era to the present day.

***u21-u22 — Esthetics of music.** Professor LÁNG. 4 points.

Tu., 7.30-9.10 P.M. 602 Journalism.

An inquiry into the laws of order and construction through which music gains shape, form and its means of expression and communication.

***103-104 — Quartet analysis.** Professor MASON. 6 points.

M. and W. at 11. 703 Journalism.

Open to a limited number of advanced students who have had Courses 1-2 and 35-36, who present examples of their work in musical theory and history and have the written permission of the instructor, or of Professor Moore.

A study of the thematic, harmonic and rhythmic structure of representative string quartets from Haydn to the present day; characteristic use of the instruments. Quartets studied will be played either in piano or two piano arrangements or in records made by the Flonzaley, Busch, Budapest and other quartets. Students will prepare papers embodying individual study.

***107 — Bach.** Professor MOORE. 2 points.

Tu. and Th. at 2. 703 Journalism.

Prerequisite, Courses 1-2, 31-32.

A study of the content, forms and styles of Bach's music.

***108 — Twentieth-century tendencies in music.** Professor MOORE. 2 points.

Tu. and Th. at 2. 703 Journalism.

Prerequisite, Courses 1-2, 31-32.

Lectures and discussions of the idioms, esthetics, forms, and styles of the chief contemporary composers.

***119-120 — The structure of music.** Dr. WEISSE. 6 points.

W., 4-6. 602 Journalism.

Prerequisite, the written permission of the instructor or of Mr. Mitchell.

An applied discussion of the problems of musical coherence; analysis of compositions in various styles.

Collegium Musicum. First and third Mondays of each month at 7.30 P.M.
312 Hamilton.

The aim of this organization is to acquaint the students with certain neglected and unfamiliar masterpieces in the literature of music, in order to supplement concert and recital programs to be heard in the city and elsewhere. All students majoring in music are required to attend the meetings and are urged to participate actively in the performance of vocal and instrumental music. The literature to be used will embrace music from medieval times up to the present day. Emphasis will be placed upon a variety of compositions and not on finished performance.

B. Theory

***31-32 — Elementary harmony and ear training.** Messrs. HOUGH and MITCHELL. 6 points.

M., W. and F. at 1 (I) at 2 (II). 703 Journalism.

Prerequisite, advised but not required, Course 1-2.

An elementary knowledge of musical notation and ability to play simple chord successions are required.

For a course in advanced harmony students are referred to Course u33-u34 below.

***35-36 — Counterpoint.** Professor BINGHAM. 4 points.

W. and F. at 1. 602 Journalism.

Prerequisite, Course 31-32.

***37-38 — Musical forms.** Mr. MITCHELL. 4 points.

M. and F. at 9. 602 Journalism on M., 703 Journalism on F.

Prerequisite, Courses 1-2, 31-32. Parallel, advised but not required, either Course u33-u34 or 35-36.

Analytical studies of the structure, rhythm and harmonic content of the chief musical forms from the simple binary and ternary through sonata form.

***131-132 — Composition.** Professor BINGHAM. 4 points.

W. and F. at 9. 602 Journalism.

Prerequisite, advised but not required, Course u33-u34.

***133-134 — Orchestration.** Professor BINGHAM. 6 points.

Th., 10-12. 602 Journalism.

Prerequisite, Courses u33-u34 and 35-36 or the equivalent, and written permission of the instructor.

The various instruments of the modern orchestra are described, with actual demonstration by professional players. A considerable amount of arrangement for orchestra will be a part of the work.

The following courses are open to music majors upon the recommendation of the Department of Music:

***u33-u34 — Advanced harmony and ear training.** Professor BINGHAM and Mr. HOUGH. 6 points.

M. at 3, 703 Journalism, and Th., 4-5.50, 602 Journalism.

Prerequisite, except by special permission, a grade of A or B in Course 31-32.

The study of chromatic harmony and remote modulations, more exhaustive use of the non-harmonic tones, modal harmonization, figuration, instrumental treatment, the technic of song-writing, and harmonic analysis. Short original compositions in undeveloped binary and ternary forms will be required. The Monday hour each week will be devoted to advanced ear-training and tone-dictation.

***u71-u72 — Score reading and repertory.** Mr. CHALMERS CLIFTON. 4 points.

W., 3-4.15. 703 Journalism.

Prerequisite, Course 31-32 or the equivalent.

A thorough study and analysis of a group of compositions representing different periods and styles. Lectures and practice in reading clefs and transposing instruments.

***u75-u76 — Conducting.** Mr. CHALMERS CLIFTON. 4 points.

F., 2-4. 602 Journalism.

Prerequisite, the written permission of the instructor, or of Mr. DITTLER.

The essentials of conducting, the technic of the baton, interpretation, repertoire. During the spring session an instrumental group will be used in class drill. Exceptionally qualified students will have the opportunity of conducting orchestra, band, and choral ensemble.

More advanced courses given at Columbia University are described in the Announcement of the Department of Music.

C. Applied music

Note. Courses in applied music can count toward the degree only if taken parallel to a theoretical or historical course in music.

***63, 64 — University orchestra and band.** Messrs. DITTLER (orchestra) and SIMMONS (band). 2 points (see note above).

Orchestra (I), M., 4-6 and W., 8-10 P.M. 312 Hamilton.

Band (II), Tu., 8-10 P.M. 312 Hamilton.

Properly qualified students are privileged to receive private lessons without

special fee in connection with this course.

Open only after consultation during the registration period with Mr. DITTLER or Mr. SIMMONS, 601 Journalism.

65, 66 — Ensemble playing. Mr. DITTLER. 2 points (see note above).

Th. at 1. 706 Journalism.

Prerequisite, the written permission of the instructor.

67, 68 — Violin playing. Mr. DITTLER. 2 points (see note above).

Private lessons at hours to be arranged. 706 Journalism.

Special fee, \$100 each session.

Individual instruction in the technic of the instrument and in interpretation.

[69, 70 — Cello playing. 2 points (see note above).

Private lessons at hours to be arranged.

Special fee, \$100 each session.

Individual instruction in the technic of the instrument and in interpretation.

Not given in 1937-38.]

79, 80 — Singing. Mme. RYBNER-BARCLAY. 2 points (see note above).

One hour weekly at hours to be arranged. 408 Barnard.

Special fee, \$100 each session.

Individual instruction in voice production and interpretation.

83a, 84a — Organ training. Mr. DOERSAM. 2 points (see note above).

Private lessons at hours to be arranged. 708 Journalism.

Special fee, \$100 each session.

Open only after consultation with the instructor.

Individual instruction in the technic of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers.

83b, 84b — Organ training. Mr. DOERSAM. 2 points (see note above).

One hour lesson a week in a group of three at hours to be arranged.

Special fee, \$60 each session.

Open only after consultation with the instructor.

83c, 84c — Organ training. Mr. DOERSAM. 2 points (see note above).

One hour lesson a week in a group of four at hours to be arranged.

Special fee, \$40 each session.

Open only after consultation with the instructor.

93, 94 — Piano playing. Mr. FRANK SHERIDAN and Miss ALTA HILL. 2 points (see note above).

Private lessons at hours to be arranged. 408 Barnard.

Section I for advanced students (Mr. SHERIDAN). Special fee, \$160 each session.

Section II for beginners (Miss HILL). Special fee, \$55 each session.

Instruction in the technic of the instrument and in interpretation.

Barnard glee club.

Programs selected chiefly from the literature for women's voices.

Rehearsals: Tu. and Th. at 5. 408 Barnard.

Auditions: Th., F. and Tu. (September 23, 24 and 28), 3-4.30.

Chapel choir.

All Barnard students are eligible to sing in the choir. Regular members of the choir are entitled to a compensation.

Services: daily except Saturday, 12-12.20, and Sunday at 11.

Rehearsals: M., W. and F., 5-6. Chapel crypt.

Auditions: M. and Tu. (September 20 and 21), 3-5; W. (September 22), 1-3.

ORIENTAL CIVILIZATIONS

Courses in Chinese and Japanese language, literature, history, philosophy and art, given at Columbia University and described in the Announcement of Ancient and Oriental Languages and Literatures, are with the permission of the instructors and the Committee on Instruction of Barnard College, open to properly qualified seniors.

PHILOSOPHY

A major in general philosophy will count in Group III. A major in esthetics will count in Group I. If courses in esthetics are counted as part of a major in general philosophy, the 14-point requirement in Group I must be satisfied in other subjects. If courses in general philosophy are counted as part of a major in esthetics, the 14-point requirement in Group III must be satisfied in other subjects. For all except major students courses in philosophy will count toward the 14-point requirement in the group indicated for each course by the statement made in connection with the point value.

A major in Philosophy. — This may be either one of two fields:

A — In general philosophy which will include Courses 1, 12, 61-62 and other courses to be arranged in consultation with the department; or

B — In esthetics which will include Courses 41-42, 45, 46, 53-54, 61-62, and other courses to be arranged in consultation with the department, usually including certain courses in literature, fine arts or music, according to the special interests of the individual student.

Honors Course (see page 37). — The comprehensive examination for students in the honors course assumes: (a) general knowledge of the history of European philosophy and a first-hand acquaintance with the principal writings of one ancient and two modern philosophers; (b) familiarity with the four main types of cosmological theory and a special knowledge of one of them; (c) acquaintance with the facts and theories of general esthetics and familiarity with their special application to one of the arts; (d) some proficiency in the theory and practice of formal logic; (e) knowledge of the history and problems of ethical theory; (f) the equivalent of at least 6 points of psychology and at least 12 points of intensive work in some branch of natural science, social science or literature, such cognate study to be chosen and carried on in consultation with the major department.

1 (or 2) — Introduction to philosophy. Professors MONTAGUE and PARKHURST and Dr. RICH. 3 points either session in Group III.

Winter session only: **1** — M., W. and F. at 9 (I), at 11 (II); Tu., Th. and S. at 9 (III).

Spring session only: **2** — M., W. and F. at 9 (I); Tu., Th. and S. at 9 (II).

[3-4 — Logic, inductive and deductive. Professor MONTAGUE. 4 points in Group II or III.

A survey of the principles of Aristotelian logic.

Not given in 1937-38.]

12 — The metaphysics of life and mind. Professor MONTAGUE and Dr. RICH. 3 points in Group III.

M., W. and F. at 11.

Prerequisite, Course 1 (or 2).

21-22 — Radical and conservative morals. Professor MONTAGUE. 4 points in Group III.

M. and W. at 10.

Open to juniors and seniors and, after consultation with the department, to specially qualified sophomores.

A study of contemporary ideals of individual life and social institutions.

23-24 — Readings in the history of ethics. Dr. RICH. 2 points in Group III. Hour to be arranged for individual conferences for the discussion of important texts.

This course may be taken only in connection with Course 21-22.

41-42 — General esthetics. Professor PARKHURST. 6 points in Group I.

Tu. and Th. at 9.

Open to juniors and seniors and, after consultation with the department, to specially qualified sophomores.

Winter session: An analysis of theories as to the origins of art, and consideration of creative imagination, of esthetic experience and of the nature of the beautiful, the sublime, the tragic and the comic.

Spring session: A survey of the major arts — music, architecture, painting, sculpture, poetry, drama, prose fiction and the dance — with special consideration of their similarities and differences in subject matter and form.

45, 46 — The esthetics of prose and poetry. Professor PARKHURST. 4 points in Group I.

Tu. and Th. at 11.

A study of prose and poetic rhythms, stanzaic patterns, poetic words and the nature of metaphor. A number of very short exercises in translation and description will be required.

53-54 — Readings in the history of esthetic theory. Professor PARKHURST. 2 points in Group I.

Hour to be arranged for individual conferences for the discussion of important texts.

This course may be taken only in connection with some other course in esthetics.

61-62 — The history of philosophy. Professor MONTAGUE and Dr. RICH. 6 points in Group III.

M., W. and F. at 9.

Open to juniors and seniors and, after consultation with the department, to specially qualified sophomores.

63-64 — Readings in the history of philosophy. Dr. RICH. 2 points in Group III.

Hour to be arranged for individual or group conferences for the discussion of important texts.

This course may be taken only in connection with some other course in philosophy.

[66 — **Philosophy of religion.** Professor BUSH and assistant. 3 points in Group III.

Open to juniors and seniors who have taken or are taking a course in anthropology or in the history of philosophy.

Not given in 1937-38.]

68 — British philosophy from Francis Bacon to John Stuart Mill. Dr. RICH. 3 points in Group III.

M. and F. at 1, and a conference hour to be arranged.

Prerequisite, Course 61-62.

The development of philosophical, political and religious theories in this period, with particular emphasis on the ideas of the eighteenth century and the background from which they arose.

79 — Contemporary philosophy. Professor PARKHURST and Dr. RICH. 3 points in Group III.

M., W. and F. at 11.

Prerequisite, Courses 1, 12 or 61-62.

145-146 — Esthetics of medieval religion, art and symbolism. Professor PARKHURST. 6 points in Group I.

Tu. and Th. at 10. 37 Milbank.

Open to seniors and specially qualified juniors.

A study of the culture of the Middle Ages as epitomized in the *Divine Comedy* and in the doctrines and ritual, pictorial art and music of the Gothic cathedral, with some consideration of the pagan themes and symbols inherited from ancient civilizations, Hebrew, Egyptian and classic.

PHYSICAL EDUCATION

In addition to the medical certificate which the student presents before admission, a physical and medical examination at college is required of all students at entrance.

A1, A2 — Rhythmic fundamentals and other activities.¹ 2 hours.

M. and W. at 10 (I), at 11 (II), at 2 (III), at 3 (IV).

And sports, games, dancing or swimming. 1 hour.

Hour to be arranged on Tu., Th. or F.

Prescribed for freshmen.

A course in personal hygiene (Hygiene A1-A2) is also prescribed for freshmen.

As soon as possible after the medical and physical tests are completed, each freshman will be given a motor ability test and a classification test in swimming. The test results will be used as a basis for deciding the type of physical activity the student will enter.

A medical and physical examination, a motor ability test and a swimming test will be required at the end of the spring session.

This combined program forms an orientation course for freshmen.

B1, B2 — Sports, games, dancing, individual gymnastics and other activities,¹ including remedial and corrective work. 3 hours.

The type of activity offered will vary with the season and a student's choice

¹ See program in Barnard Hall.

should be governed by her health grade, her defects, her group requirement and her preferences. See *Syllabus* for full statement.

Sophomores are required to take two of their three hours on Tu. and Th. The three hours must be taken on different days.

Prescribed for sophomores.

C1, C2 — Sports, games, dancing and swimming,¹ to be elected in any authorized activity, depending upon the student's physical condition, her group requirement and her preferences. Specific activity will be prescribed only in special cases.

M. to F. inclusive at hours to be arranged on different days. 2 hours.

Prescribed for juniors.

D1, D2 — Sports, games, dancing and swimming.¹ Substitution of approved activities will be allowed in special cases.

M. to F. inclusive at hours to be arranged on different days. 2 hours.

Prescribed for seniors.

The Dance as a fine art. (A special course for juniors and seniors only.)

Prerequisite, high intermediate or advanced dancing. This course will receive regular credit in physical education although it will combine theory and practice. (Consult Miss Streng for further particulars.)

Students who pass the group requirements are excused from supervised activity during their last year in college. See *Syllabus*.

Students wishing to qualify as camp councillors or social workers are urged to choose their electives accordingly. An intensive course for student councillors for Barnard College Camp will be given at camp in June after the close of college. (Consult Miss Holland.)

The Red Cross Life Saving Course and tests will be given each session and may be counted as a regular elective.

Special training will be given for the development of student officials for sports and games.

101, 102 — Dancing, sports, games and swimming for women graduate students under the Faculties of Philosophy, Political Science and Pure Science, and women students in the professional schools of the University (excepting Teachers College). 3 hours. 1 point each session.

All regular sections are open provided the registration is not already filled by undergraduate students. Graduate students who wish credit must take work in classes in which instruction is given and should avoid "open hour" sections.

There is a prescribed dance and sports costume for all work, approximate cost, \$5; swimming suits, \$1.50. For further information inquire at Barnard Hall, Room 209.

PHYSICS

A major in Physics. — Students majoring in physics will be required to take in

Physics — Courses to be arranged in consultation with the department.

Other fields — Mathematics: analytics, differential and integral calculus and if possible, differential equations.

Chemistry — 1 year's work.

A reading knowledge of French and German by the beginning of the junior year.

A course in another natural science.

Honors Course (see page 37). — The comprehensive examination assumes, in addition to the requirements for students majoring in physics, that the students have supplemented the ground

¹ See program in Barnard Hall.

covered in the announced courses by (a) readings and reports on the theory and wider applications in various fields; (b) readings and reports upon the history of the development of important principles, including some study of the lives of principal contributors to the development of the science; (c) more advanced laboratory experiments in some field; (d) the independent solution of some theoretical or experimental problem in the field of major interest.

11-12 — General physics. Professor — and Dr. TOWNSEND. 8 or 9 points.

Lectures: M., W. and F. at 11.

Laboratory: For students electing 8 points, 2 hours each session; for students electing 9 points, 2 hours winter session, 4 hours spring session. M., 2-4; Tu., 9-11, 2-4; Th., 1-3, and, if more than 64 students elect the course, F., 2-4.

Premedical students are advised to take the course for 9 points.

Open to all students.

Preceding or parallel, Mathematics 1 and 22 or 7-8.

30 — Modern physics. Professor —. 3 points.

M., W. and F. at 10.

Prerequisite, Course 11-12.

A short history of physics from the time of Galileo, followed by an elementary discussion of a few of the phenomena which have contributed to the evolution of modern atomic theories. Discoveries in the field of ionization, X-rays, photo-electricity, spectroscopy and radioactivity with particular emphasis on their influence upon our concept of the structure of matter.

31 — Mechanics. Dr. TOWNSEND. 4 points.

M., W. and F. at 9 (or hour to be arranged), and 2 hours of laboratory work.

Prerequisite, Course 11-12, except by special arrangement.

[**32 — Heat and properties of matter.** 4 points.

Prerequisite, Course 31, except by special arrangement.

Not given in 1937-38.]

[**34 — Light.** 4 points.

Prerequisite, Course 11-12.

Not given in 1937-38.]

[**35 — Electricity and magnetism.** 4 points.

Prerequisite, Courses 31 and 32, except by special arrangement.

Not given in 1937-38.]

36 — Electricity. Dr. TOWNSEND. 4 points.

M., W. and F. at 1 (or hour to be arranged), and 2 hours of laboratory work.

Prerequisite, Course 35 or the equivalent.

37, 38 — Supplementary laboratory work in mechanics, heat, light, or electricity to meet the needs of individual students may be arranged in consultation with the instructors. Professor — and Dr. TOWNSEND.

Hours and credit by arrangement.

39 — Photography. Dr. TOWNSEND. 3 points.

Hours to be arranged for 1 lecture and 4 hours of laboratory work.

Prerequisite, Course 11-12.

The theories of optics as applied to photography and photo-micrography. The principles of still and motion picture photography; infra-red, ultra-violet, and X-ray photography. The theory of color photography.

Graduate courses

Note. The following graduate courses are open only by special permission to qualified seniors.

***109 — Optics.** Professor FARWELL. 3 points.

W., 4-6. 428 Pupin.

A course in general optics, with demonstrations and problems.

***111 — Theory of electricity and magnetism.** Professor QUIMBY. 3 points.

M., W. and F. at 10. 329 Pupin.

A development of the fundamental principles of electromagnetic theory concluding with Maxwell's equations for wave propagation.

***123-124 — Mechanics.** Professor PEGRAM. 9 points.

M., W. and F. at 9. 420 Pupin.

Introductory course in analytical mechanics. Statics, kinematics and kinetics of the particle and rigid body.

PSYCHOLOGY

A major in psychology will satisfy the requirement in Group II. Students majoring in this subject must satisfy the 14-point requirement in Group III in subjects other than psychology. For other students, courses in psychology will count toward the requirement in the group indicated for each course by the statement made in connection with the point value.

A major in Psychology. — Students majoring in psychology will be required to take in

Psychology — Courses 1 (or 2); either 5-6 or 7-8 or 9-10; and the additional points with the advice of the department.

Other fields — One year in philosophy (6 points); one year (8 points) in another laboratory science and an organized program in other fields to be arranged in consultation with the department.

Honors Course (see page 37). — The comprehensive examination for students in the honors course assumes: (a) knowledge of systematic, differential, experimental, applied, developmental, social, educational and abnormal psychology; (b) special familiarity with experimental technics, statistics, and methods of mental measurement; (c) first hand acquaintance with the history, literature and current status of some particular problem and an original effort to investigate some question relating thereto; (d) any two of Courses 5-6, 7-8, 9-10, 8 points in another laboratory science, and 6 points in philosophy, all taken in the regular way; and a reading knowledge of French or German.

1 (or 2) — Introduction to psychology. 3 points either session in Group III.

Winter session:

1 — M., W. and F. at 9 (I), Dr. ANASTASI.

M., W. and F. at 10 (II), Mr. SIMPSON.

Tu., Th. and S. at 9 (III), Dr. SEWARD.

Tu., Th. and S. at 10 (IV), Dr. YOUTZ.

Spring session:

2 — M., W. and F. at 9 (I), Dr. ANASTASI.

M., W. and F. at 10 (II), Dr. YOUTZ.

Tu., Th. and S. at 9 (III), Dr. SEWARD.

Tu., Th. and S. at 10 (IV), Mr. SIMPSON.

An introduction to the chief facts, principles and problems of normal adult psychology, through systematic study of a text, lectures, exercises and reading in special fields. This course is a prerequisite to all other courses in psychology and in education.

Educational psychology. Professor HOLLINGWORTH and Mr. SIMPSON. 3 points either session. See Education 07A, page 70.

3 (or 4) — Mental adjustments. Mr. SIMPSON and Dr. YOUTZ. 2 points either session in Group III for students not majoring in psychology.

Tu. and Th., 2-4.

Prerequisite, Course 1 (or 2).

A non-technical survey of the principles of mental health, occupational choice, and educational guidance, designed to acquaint the student with psychological progress in these fields, to afford on the basis of practical suggestions and objective tests a background of information for personal application.

5-6 — Experimental psychology; Mental measurement. Dr. ANASTASI. 8 points in Group II.

M. and W., 1-4, for lectures and laboratory.

Prerequisite Course 1 (or 2). Limited to 30 students.

A survey of the methods of mental measurement, from sensory and motor functions, through simple mental processes to more complex intellectual aptitudes and personality traits. Special attention will be given to methods of measuring "general intelligence," vocational aptitudes, interests, and emotional and social traits. The use and interpretation of statistical technics, as well as fundamental experimental methods, will be demonstrated throughout.

7-8 — Experimental psychology, quantitative. Dr. YOUTZ. 8 points in Group II.

M. and W., 1-4, for lectures and laboratory work.

Prerequisite, Course 1 (or 2). Limited to 20 students.

Typical experiments emphasizing the fundamental quantitative methods in psychological investigation, on such representative topics as sensory acuity, discrimination, psychophysical methods, learning, transfer, movement, work, reaction time, fatigue, practice, association, memory.

9-10 — Experimental psychology, qualitative. Dr. SEWARD. 8 points in Group II.

Tu. and Th., 2-5, for lectures and laboratory work.

Prerequisite, Course 1 (or 2). Limited to 24 students.

A series of experiments designed to familiarize the student with the outstanding problems and research methods in the fields of sensation, perception, esthetics, emotion, imagery and thinking. Part of the spring session will be devoted to the conduct of original projects.

19 — Developmental psychology. Professor HOLLINGWORTH. 3 points in Group II.

Tu. and Th. at 11.

Open to juniors and seniors who have had Course 1 (or 2).

A survey of mental origins, of the developmental stages of human life through infancy, childhood, youth, maturity and old age, with special reference to biological, psychological and social factors in individual growth and adjustment.

20 — Abnormal psychology. Professor HOLLINGWORTH. 3 points in Group II.

Tu. and Th. at 11.

Prerequisite, Course 19 or the equivalent.

A general survey of the field of psychopathology, the history of the subject, the more common forms of mental inadequacy and disturbance, and their psychological interpretation, including the principles of mental hygiene and psychotherapy.

21 — Differential psychology. Dr. ANASTASI. 3 points in Group II.

M. and W. at 10.

Prerequisite, Course 1 (or 2).

An analysis of the factors underlying individual differences in intellectual as well as personality traits, followed by a critical survey of the major findings on sex differences, and on racial, national, and cultural differences.

22 — Applied psychology. Dr. ANASTASI. 3 points in Group II.

M., W. and F. at 10.

Prerequisite, Course 1 (or 2).

Applications of psychology to problems of vocational guidance and selection, industrial management and efficiency of work, advertising and selling, detection and treatment of delinquents and criminals, and other miscellaneous problems of practical interest.

24 — Psychology of conduct. Professor HOLLINGWORTH. 2 points in Group III.

W., 1-3, for reading and discussion.

Prerequisite, 9 points in psychology.

Critical discussion of the psychological concepts and assumptions underlying various ethical systems, and of the psychological factors to be considered in the development of personal and social codes of behavior.

28 — Psychology of childhood. Mr. SIMPSON. 3 points in Group III.

M., W. and F. at 1.

Prerequisite, Course 1 (or 2).

A detailed study of the practical problems of infancy, childhood and adolescence, with special emphasis on habit formation, the growth of the emotions, social adjustment, and modern theories of child training and guidance. Lectures, reading and visits to institutions.

37 — Comparative psychology. Dr. YOUTZ. 3 points in Group II.

M., W. and F. at 9.

Prerequisite, Course 1 (or 2).

A survey of the mental characteristics and behavior of the lower animals, of the methods and results of psychological studies of animal learning and performance and of such social phenomena as occur on the infra-human level.

38 — Social psychology. Dr. SEWARD. 2 points in Group III or, with the consent of the instructor, 3 points.

Tu. and Th. at 10. Additional conference hours to be arranged for the third point.

Prerequisite, Course 1 (or 2).

An analysis of the home, school, playground, cinema and other influences on the development of social relations and attitudes in the individual. The behavior of temporary and permanent social groups, e.g., the mob, audience, gang and club. Psychological factors in the structure of societies; intercomparisons among contrasting contemporary societies. Lectures and discussions.

107 — The psychology of emotion and motivation. Dr. SEWARD. 3 points in Group III.

Tu. and Th. at 10. 103 Schermerhorn extension.

Open to juniors and seniors with at least 6 points in psychology and the consent of the department.

Prerequisite, Course 1 (or 2).

An analysis of the basic drives in behavior in terms of their underlying mechanisms and genetic development in the individual. The relation between drive and emotion with emphasis upon theoretical implications. Interactions among drives and their organization in the integrated personality. Psychobiographies of illustrative cases.

109 — Contemporary problems. Professor HOLLINGWORTH. 2 points in Group II.

W., 1-3, for lectures and discussion.

Open only to senior majors who have had either Course 5-6 or 7-8 or 9-10.

A survey of problems deserving experimental investigation, growing out of past and current research activities of the department.

[117-118 — **Systematic psychology.** Professor HOLLINGWORTH. 6 points in Group III.

Open to juniors and seniors with at least 9 points in psychology and the consent of the department.

A comparative and critical survey of the more influential points of view in psychology, with an endeavor to organize them into a consistent system of facts and principles. Reading, reports and discussion.

Not given in 1937-38.]

Honors conference. Professor HOLLINGWORTH.

W. at 10, winter and spring sessions.

Open to honors course students only, required in the senior year.

Conferences on readings and original projects, reports of individual work, and plans for the comprehensive examinations.

PUBLIC LAW. See Government.

RELIGION

A major in Religion. — Students majoring in religion will be required to take in

Religion — Courses 1, 2 or 5, 6, and also Courses 3, 4, 7 and 10. (They are advised to take 1, 2 or 5, 6 and 3, 4 as 6-point courses.)

Other fields — Philosophy 61, 62; and at least 6 further points, selected in consultation with the department from courses such as: Anthropology 110; Fine Arts 90; and others in accordance with individual requirements.

Majors are also advised to consult with the department regarding the selection of courses outside these requirements, since work done in such fields as philosophy, psychology, anthropology, history, social sciences, literature, and fine arts can be so chosen as to contribute substantially to the study of religion.

1, 2 — The Bible. Chaplain KNOX. 4 points; 6 points for majors in religion if taken in junior or senior year.

Tu. and Th. at 11.

Course 2 is a continuation of Course 1, but either course may be taken separately.

A comprehensive study of the Bible in the light of present-day scholarship. Class-room exercises will follow a printed syllabus.

Winter session: How the Bible came to be, famous translations, the stories of Genesis, the lives and teachings of the prophets; the growth of religious ideas and ethical standards throughout Biblical history.

Spring session: The books of Job, Jonah and Daniel of the Old Testament, and the study of the New Testament; how the Gospels were written; the life and teachings of Jesus, the letters of Paul and the Book of Revelation.

[3, 4 — **A study of religions.** Professor FRIESS. 4 or, with the permission of the instructor, 6 points.

Open to all excepting freshmen.

Investigation and discussion of the forms and functions which religion has assumed historically and in contemporary society.

Not given in 1937-38.]

3a, 4a — A study of two religions: Hellenism and Judaism. Professor FRIESS. 4 or, with the permission of the instructor, 6 points.

Tu. and Th. at 2.

Open to all excepting freshmen.

Winter session: (a) Greek agricultural and civic cults in their development from primitive culture; (b) Religious implications in Greek poetry and philosophy; (c) Hellenistic mysteries; (d) The legacy of Greek religion in later times.

Spring session: (a) Biblical traditions and the making of Judaism; (b) Practices and literature of the synagogues; (c) Jewish mysticism; (d) Judaism in the modern world.

This course is of the same intermediate character as the more general survey 3, 4 and is intended, like that course, to introduce students to the study of religion as part of culture with the use of primary texts, critical literature, and illustrative materials from other arts. Only in this case the subject matter is drawn from two special fields. It is planned in future to give intensive intermediate courses, such as this, in the study of particular religions in annual alternation with the more general survey course. Permission to take both Courses 3 and 3a will be granted only for special reasons.

5, 6 — Types of literature in the Old and New Testaments. Dr. MARY ELY LYMAN. 4 or, with the permission of the instructor, 6 points.

M. and W. at 1.

A study of the various types of literature found in the Bible: folk-lore, story, poetry, chronicle, wisdom, gospel, apocalypse, etc. Examination of each for criticism and evaluation. A comparison of these types with similar forms in the literature of other peoples; a consideration of the place of the Biblical writings in the religious literature of the world.

Winter session: The writings of the Old Testament. Spring session: The writings of the New Testament.

[7 — Early Christianity and Hellenistic culture. Dr. MARY ELY LYMAN. 3 points.

Prerequisite, Course 2 or 6.

The development of Christianity in the first three centuries; its relation to contemporary culture in the Hellenistic world, with special emphasis on its adjustment to Hellenistic religion and philosophy, and to the Roman state.

Not given in 1937-38.]

[10 — Religious classics in eastern cultures. Professor FRIESS. 3 points.

Preceding or parallel, Course 4.

Preliminary survey of the types of religious literature, and their usage in folk-ways, cult, philosophy, and art. Reading and discussion of selections from Indian and Chinese texts in English translations.

Not given in 1937-38.]

11 — Contemporary ethical and religious problems in the light of the Christian Gospels. Dr. MARY ELY LYMAN. 3 points.

M. and W. at 2.

Open to any student who has had a term's work in religion, and, with the special permission of the instructor, to juniors and seniors.

A study of the ethical and religious meaning for life today of the teachings of Jesus, on the basis of the Gospels and other New Testament materials as they reveal Jesus and his place in the experience of the early Christian community.

SEMITIC LANGUAGES

Courses in Hebrew and Arabic language, literature, history, given at Columbia University and described in the Announcement of Ancient and Oriental Languages and Literatures, are, with the permission of the instructors and the Committee on Instruction of Barnard College, open to properly qualified seniors.

SLAVONIC LANGUAGES

Courses in Russian literature in translation and Russian language, given at Columbia University and described respectively in the Announcement of the Division of Modern Languages and Literatures and in the Announcement of University Classes, are, with the permission of the instructors and the Committee on Instruction of Barnard College, open to properly qualified seniors.

SOCIOLOGY. See **Economics and Social Science.**

SPANISH

A major in Spanish. — Students majoring in Spanish will be required to take in

Spanish — Courses 3, 4; 13, 14, 15-16, 19, 20, 21, 22; and either 17-18 or a more advanced course to be chosen in consultation with the department.

Other fields — Courses will vary with the special interest of the student and should be arranged in consultation with the major department. Courses especially recommended: History 1-2, 7, 8, and 51, 52; two years of French.

Honors Course (see page 37). — The comprehensive examination assumes: (a) the ability to speak and write Spanish easily; (b) a general knowledge of Spanish history and Spanish literature up to the present time; (c) a more thorough knowledge of some particular period or century; (d) a reading knowledge of French or Italian; (e) students are also expected to show that they have followed courses in Latin, history and philosophy.

Language courses

1-2 (old number 1a-2a) — Elementary course. Professor MARCIAL-DORADO, Mrs. DEL RÍO and Miss ARCE. 6 points.

M., W. and F. at 9 (I), at 11 (II), at 1 (III).

Grammar, reading, composition.

This course may not be taken at the same time as Italian 1-2.

3, 4 (old number 1b, 2b) — Advanced course. Mrs. DEL RÍO. 6 points.

M., W. and F. at 11 (I), at 2 (II).

Prerequisite, to Course 3, Course 1-2 or two entrance units in Spanish.

Prerequisite to Course 4, Course 3 or three entrance units in Spanish.

A rapid review of grammar and syntax, the reading of typical works by modern authors; composition and conversation.

5, 6 (old number 7, 8) — Spanish composition. Professor MARCIAL-DORADO. 4 points.

Tu. and Th. at 9.

Prerequisite, Course 3.

[7, 8 (old number 9, 10) — Advanced Spanish composition. Professor MARCIAL-DORADO. 4 points.

Prerequisite, Course 5, 6.

Not given in 1937-38.]

9-10 — Elementary Spanish conversation. Miss ARCE. 2 points for the year if taken parallel to another Spanish course in either session.

Th. at 1.

Divisible only for students who are taking another Spanish course.

11-12 — Advanced Spanish conversation. Dr. DE MAEZTU. 2 points for the year if taken parallel to another Spanish course in either session.

Th. at 1.

Divisible only for students who are taking another Spanish course.

Discussions and reports on Spanish subjects.

*Literature courses*¹

13, 14 — Practical course and introduction to Spanish literature. Dr. DE MAEZTU. 6 points.

M., W. and F. at 10.

Prerequisite, Course **3, 4**.

Lectures on the history of Spanish literature and reading of selected works by representative authors, particularly Cervantes, Lope de Vega and Calderón; discussions and reports.

15-16 — The Spanish drama of the Golden Age. Mrs. DEL RÍO. 4 points.

Tu. and Th. at 9.

Prerequisite, Course **13, 14**.

The Spanish drama of the seventeenth century; reading and discussion of representative plays.

[17-18 — Spanish literature in the nineteenth century. Mrs. DEL RÍO. 4 points.

Prerequisite, Course **13, 14**.

Winter session: The romantic movement and lyric poetry. Spring session: Development of the novel.

Not given in 1937-38.]

19, 20 — Spanish civilization. Professor MARCIAL-DORADO. 4 points.

Tu. and Th. at 10.

Prerequisite, Course **3, 4**.

A survey of the historical development of Spanish civilization and its significance in the life of the world today; the various aspects of Spanish and Latin-American culture.

21, 22 — Contemporary Spanish literature. Professor MARCIAL-DORADO. 6 points.

Tu. and Th. at 11, and a third hour to be arranged.

Prerequisite, Course **13, 14**.

*Graduate courses*¹

Note. The following graduate courses are open only to qualified seniors after consultation with the Department of Spanish at Barnard.

***123 — Desarrollo del pensamiento español.** Dr. DE MAEZTU. 3 points.

W., 3.30-5.30.

***127 — Literatura de la Edad Media y Renacimiento.** Professor DEL RÍO. 3 points.

Tu. and Th. at 5.

***169-170 — Spanish folklore.** Professor DE ONÍS. 2 points.

W. at 8 P.M. Casa de las Españas.

Other courses given in Columbia University are described in the announcement of the Division of Modern Languages and Literatures.

¹ All literature as well as all graduate courses are conducted entirely in Spanish.

ZOÖLOGY

A major in Zoölogy. — Students majoring in zoölogy will be required to take in

Zoölogy — Course 1-2, and other courses in combination or in sequence which will vary with the individual interest and purpose of the student and should be arranged in consultation with the department.

Other fields — The work will vary with the special interest of the student and should be arranged in consultation with the major department.

1-2 — General biology and general zoölogy. Elementary course. Professor CRAMPTON, Mrs. WORLEY, Misses BROOKS, SNYDER, HORNOR and MERRILL. 8 points.

Lectures: Tu. and Th. at 2. Laboratory (4 hours): Tu. and Th., 3-5, or Tu. and Th., 9-11 or 10-12, or W. and F., 2-4.

5, 6 — Heredity and evolution. Professors CRAMPTON and LOWTHER. 4 points.

Tu. and Th. at 11.

Prerequisite, Course 1-2.

13 — Histology and histological methods. Dr. FORBES. 5 points.

Lectures: M. and W. at 1. Laboratory and conferences (6 hours): M. and W., or Tu. and Th., 2-5.

Prerequisite, Course 1-2.

14 — Embryology and embryological methods. Dr. FORBES. 3 or 5 points, to be arranged with the department before registration.

Lectures: M. and W. at 1. Laboratory: 2 hours for students taking 3 points, 6 hours for students taking 5 points, M. and W., or Tu. and Th., 2-5.

Prerequisite, Course 1-2.

22 — Animal ecology. Mrs. WORLEY. 4 points.

Lectures: Tu. and Th. at 9. Laboratory and field trips (4 hours) to be arranged.

Prerequisite, Course 1-2.

General principles of ecology with special reference to the New York region. Recommended for students interested in further biological research and teaching.

97-98 — Comparative morphology and physiology of vertebrates. Professors GREGORY and LOWTHER and Mrs. WORLEY. 10 points.

Lectures: M. and W. at 10. Laboratory (6 hours): M. and W., 2-5, or Tu., 2-5, and Th., 1-4.

Prerequisite, Course 1-2 and Chemistry 5-6.

Practical course in dissection and experimentation, with special reference to the mammalia. Recommended for pre-medical students and technicians.

101 — General zoölogy of invertebrates. Advanced course. Professors CRAMPTON and LOWTHER. 6 points.

M., W. and F., 1-4, for lectures and 6 hours of laboratory work.

Prerequisite, Course 1-2.

102 — General zoölogy of vertebrates. Advanced course. Professor LOWTHER. 6 points.

M., W. and F., 1-4, for lectures and 6 hours of laboratory work.

Prerequisite, Courses **1-2** and **14**.

151-152 — Physiology. Professor GREGORY and Dr. DOWNES. 12 points.

M., W. and F. at 11. Laboratory (6 hours): Tu. and Th., 9-12.

Laboratory fee for Course **152** only, \$15.00.

Prerequisite, Course **1-2**, or the equivalent and Chemistry **63, 64**. Organic chemistry, preceding or parallel.

Open to seniors.

Winter session: general principles of animal physiology. Spring session: the chemistry of physiological processes.

161, 162 — Advanced morphology and physiology. Professors CRAMPTON, GREGORY, LOWTHER and Dr. FORBES.

Hours and credits by arrangement.

Work will be planned to suit the needs of students after consultation with the instructors.

SCHEME OF

Hours	MONDAY	TUESDAY	WEDNESDAY
A.M.	Chemistry 41-42 English 53, 54 *Fine Arts 168 French 1-2 French 5, 6 (I) French 5a, 6a (I) Geology 27, 28 German 1-2 (I) History 1-2 (I) History 5, 6 Italian 1-2 Latin 3, 4 Latin 21, 22 Mathematics 1, 22 *Music 37-38 Philosophy 1 (I) or 2 (I) Philosophy 61-62 Physics 31 *Physics 123-124 Psychology 1 (I) or 2 (I) Psychology 37 Spanish 1-2 (I)	Archaeology 71, 72 Botany 53-54 English 77, 78 French 1-2 French 3, 4 (III) French 5, 6 (V) Geography 1, 2 German 1-2 (III) German 25, 26 History 61-62 Italian 13, 14 Latin 27, 28 *Music 9-10 Philosophy 1 (III) or 2 (II) Philosophy 41-42 Psychology 1 (III) or 2 (III) Spanish 5, 6 Spanish 15-16 Zoology 22	Chemistry 41-42 English 53, 54 *Fine Arts 168 French 1-2 French 5, 6 (I) French 5a, 6a (I) French 13-14 Geology 27, 28 German 1-2 (I) German 29 History 1-2 (I) History 5, 6 Italian 1-2 Latin 3, 4 Latin 21, 22 Mathematics 1, 22 *Music 131-132 Philosophy 1 (I) or 2 (I) Philosophy 61-62 Physics 31 *Physics 123-124 Psychology 1 (I) or 2 (I) Psychology 37 Spanish 1-2 (I)
9	Anthropology 10 Chemistry 63, 64 Chemistry 106 Economics 1-2 (I) Economics 21, 22 †Education 07A (II) English A1-A2 (Ia, b, c, d) Fine Arts 41 Fine Arts 68 (I) Fine Arts 90 *Fine Arts 147 French 5, 6 (II) French 5a, 6a (II) French 7, 8 (I) French 21-22 French 125, 126 German 3, 4 (I) German 7, 8 Greek 11, 12 History 51, 52 *History 175, 176 Italian 25-26 Mathematics 31-32 *Music 3, 4 Philosophy 21-22 Physics 30 *Physics III Psychology 1 (II) or 2 (II) Psychology 21, 22 Spanish 13, 14 Zoology 97-98	Chemistry 5-6 Classical Civilization 49, 50 Economics 17, 18 Economics 25-26 English 3, 4 English 39, 40 English 61-62 English 69, 70 Fine Arts 1-2 Fine Arts 62 French 7, 8 (III) French 31, 32 German 9, 10 Government 31, 32 History 1-2 (IV) History 97, 98 Mathematics 44 Mathematics 45 *Music 1-2 (II) Philosophy 145-146 Psychology 1 (IV) or 2 (IV) Psychology 38 Psychology 107 Spanish 19, 20	Anthropology 10 Chemistry 63, 64 Chemistry 106 Economics 1-2 (I) Economics 21, 22 †Education 07A (II) English A1-A2 (Ia, b, c, d) Fine Arts 41 Fine Arts 68 (I) Fine Arts 90 French 5, 6 (II) French 5a, 6a (II) French 7, 8 (I) French 21-22 French 125-126 German 3, 4 (I) German 7, 8 Greek 11, 12 History 51, 52 *History 175, 176 Italian 25-26 Mathematics 31-32 *Music 3, 4 Philosophy 21-22 Physics 30 *Physics 111 Psychology 1 (II) or 2 (II) Psychology 21, 22 Psychology honors conference Spanish 13, 14 Zoology 97-98
10	Anthropology 109, 110 Botany 153, 58 Chemistry 145 Economics 27, 28 English 21-22 (I) English 71, 72 English 73, 74 Fine Arts 68 (II) French 11, 12 French 23-24 French 33, 34 Geology 20 German 3, 4 (II) German 5, 6 Government 3, 4 History 1-2 (II, III) History 9, 10 Mathematics 7-8 Mathematics 135, 136 *Music 103-104 Philosophy 12 Philosophy 79 Physics 11-12 Sociology 1-2 Spanish 1-2 (II) Spanish 3, 4 (I) Zoology 151-152	*Astronomy 1-2 Botany 51-52 Classical Civilization 55, 56 Economics 13, 14 English A1-A2 (IIIa, b, c) English 45, 46 English 49, 50 English 67, 68 Fine Arts 75 *Fine Arts 176 (11-12.15) French 15, 16 Geology 1-2 German 1-2 (IV) German 51 Greek 25, 26 History 7, 8 Hygiene A1-A2 (I) Italian 5, 6 *Music 1-2 (I) Philosophy 45, 46 Psychology 19, 20 Religion 1, 2 Sociology 61-62 Spanish 21, 22 Zoology 5, 6	Anthropology 109, 110 Botany 153, 58 Chemistry 145 Economics 27, 28 English 21-22 (I) English 71, 72 English 73, 74 Fine Arts 68 (II) French 11, 12 French 23-24 French 33, 34 Geology 20 German 3, 4 (II) German 5, 6 Government 3, 4 History 1-2 (II, III) History 9, 10 Mathematics 7-8 Mathematics 135, 136 *Music 103-104 Philosophy 1 (II) Philosophy 12 Philosophy 79 Physics 11-12 Sociology 1-2 Spanish 1-2 (II) Spanish 3, 4 (I) Zoology 151-152
11			

Courses marked with an asterisk [*] are given at Columbia University;

ATTENDANCE

Hours	THURSDAY	FRIDAY	SATURDAY
A.M.	Archaeology 71, 72 Botany 53-54 English 77, 78 French 1-2 French 3, 4 (III) French 5, 6 (V) Geography 1, 2 German 1-2 (III) German 25, 26 History 61-62 Italian 13, 14 Latin 27, 28 *Music 9-10 Philosophy 1 (III) or 2 (II) Philosophy 41-42 Psychology 1 (III) or 2 (III) Spanish 5, 6 Spanish 15-16 Zoology 22	Chemistry 41-42 English 53, 54 *Fine Arts 168 French 1-2 French 5, 6 (I) French 5a, 6a (I) French 13-14 Geology 27, 28 German 1-2 (I) German 29 History 1-2 (I) History 5, 6 Italian 1-2 Latin 3, 4 Latin 21, 22 Mathematics 1, 22 *Music 37-38 *Music 131-132 Philosophy 1 (I) or 2 (I) Philosophy 61-62 Physics 31 *Physics 123-124 Psychology 1 (I) or 2 (I) Psychology 37 Sociology 1-2 Spanish 1-2 (I)	French 3, 4 (III) French 5, 6 (V) *History 181, 182 *Italian 153 Philosophy 1 (III) or 2 (II) Psychology 1 (III) or 2 (III)
9			
10	Chemistry 5-6 Classical Civilization 49, 50 Economics 17, 18 Economics 25-26 English 3, 4 English 39, 40 English 61-62 English 69, 70 Fine Arts 1-2 Fine Arts 62 French 7, 8 (III) French 31, 32 German 9, 10 Government 31, 32 History 1-2 (IV) History 97, 98 Mathematics 44 Mathematics 45 *Music 1-2 (II) *Music 133-134 Philosophy 145-146 Psychology 1 (IV) or 2 (IV) Psychology 38 Psychology 107 Spanish 19, 20	Chemistry 63, 64 Chemistry 106 Economics 1-2 (I) Economics 21, 22 †Education 07A (II) English A1-A2 (Ia, b, c, d) Fine Arts 41 Fine Arts 68 (I) Fine Arts 90 *Fine Arts 147 French 5, 6 (II) French 5a, 6a (II) French 7, 8 (I) French 21-22 French 125-126 German 3, 4 (I) German 7, 8 Greek 11, 12 History 51, 52 Italian 25-26 Mathematics 31-32 Physics 30 *Physics 111 Psychology 1 (II) or 2 (II) Psychology 22 Sociology 1-2 Spanish 13, 14	Chemistry 5-6 French 7, 8 (III) History 1-2 (IV) *History 181, 182 *Italian 153 Psychology 1 (IV) or 2 (IV)
11	*Astronomy 1-2 Botany 51-52 Classical Civilization 55, 56 Economics 13, 14 English A1-A2 (IIIa, b, c) English 45, 46 English 49, 50 English 67, 68 Fine Arts 75 *Fine Arts 176 (11-12.15) French 15, 16 Geology 1-2 German 1-2 (IV) German 51 Greek 25, 26 History 7, 8 Italian 5, 6 *Music 1-2 (I) *Music 133-134 Philosophy 45, 46 Psychology 19, 20 Religion 1, 2 Sociology 61-62 Spanish 21, 22 Zoology 5, 6	Anthropology 109, 110 Chemistry 145 Economics 27, 28 English 21-22 (I) English 73, 74 Fine Arts 68 (II) French 23-24 Geology 20 German 3, 4 (II) German 5, 6 Government 3, 4 History 1-2 (II, III) History 9, 10 Hygiene A1-A2 (IV) Mathematics 7-8 Mathematics 135, 136 Philosophy 1 (II) Philosophy 12 Philosophy 79 Physics 11-12 Sociology 1-2 Spanish 1-2 (II) Spanish 3, 4 (I) Zoology 151-152	English A1-A2 (IIIa, b, c)

those marked with a dagger [†] are given at Teachers College.

SCHEME OF

Hours	MONDAY	TUESDAY	WEDNESDAY
P.M.	Anthropology 1, 2 Botany 151-152 †Education 07A (I) English 21-22 (II) English 57 *Fine Arts 141 *Fine Arts 162 French 3, 4 (I) French 5, 6 (III) French 7, 8 (II) French 9, 10 French 35, 36 German 1-2 (II) German 3, 4 (III) Government 1, 2 History 17, 18 Latin 11, 12 *Music 31-32 (I) Philosophy 68 Physics 36 Psychology 5-6 Psychology 7-8 Psychology 28 Religion 5, 6 Sociology 53, 54 Spanish 1-2 (III) Zoology 13, 14 Zoology 101, 102		Anthropology 1, 2 †Education 07A (I) English 21-22 (II) English 57 *Fine Arts 162 French 3, 4 (I) French 5, 6 (III) French 7, 8 (II) French 9, 10 French 35, 36 German 1-2 (II) German 3, 4 (III) Government 1, 2 History 17, 18 Latin 11, 12 *Music 31-32 (I) *Music 35-36 Physics 36 Psychology 5-6 Psychology 7-8 Psychology 24 Psychology 28 Psychology 109 Religion 5, 6 Sociology 53, 54 Spanish 1-2 (III) Zoology 13, 14 Zoology 101, 102
1:10			
2:10	Anthropology 5, 6 Chemistry 105 *Drawing u1-u2 Economics 1-2 (II, III, IV) †Education 35A-36A English A1-A2 (IIa, b, c) English 91, 92 (I) Fine Arts 65, 66 French 3, 4 (II) French 5, 6 (IV) French 27, 28 Government 23, 24 Greek 1-2 Mathematics 21R Mathematics 24 Mathematics 28 Mathematics 33 *Music 31-32 (II) Psychology 5-6 Psychology 7-8 Religion 11 Spanish 3, 4 (II) Zoology 101, 102	Classical Civilization 53, 54 English 23-24 English 65, 66 English 79, 80 Fine Arts 51, 52 Government 61, 62 Greek 1-2 History 11, 12 Hygiene A1-A2 (II) *Music 107, 108 Psychology 3 or 4 Psychology 9-10 Religion 3a, 4a Sociology 31, 32 Zoology 1-2	Anthropology 5, 6 Chemistry 105 *Drawing u1-u2 Economics 1-2 (II, III, IV) †Education 35A-36A English A1-A2 (IIa, b, c) Fine Arts 65, 66 French 3, 4 (II) French 5, 6 (IV) French 27, 28 Government 23, 24 Greek 1-2 Mathematics 21R Mathematics 24 Mathematics 28 Mathematics 33 *Music 31-32 (II) Psychology 5-6 Psychology 7-8 Psychology 24 Psychology 109 Religion 11 Spanish 3, 4 (II) Zoology 101, 102
3:10	*Drawing u1-u2 †Education B01A, B02A English 15 English 91, 92 (I) *Fine Arts 153A (3-4.25) *Fine Arts 156 (3-4.25) *Italian 101-102 Latin 19-20 Mathematics 47 Mathematics 58 *Music u33-u34 Psychology 5-6 Psychology 7-8 Zoology 101, 102	Archaeology 61, 62 Botany 150 English 65, 66 English 91, 92 (II) *Fine Arts 145, 146 (3-4.25) Geology 19 Government 61, 62 Latin 37, 38 Psychology 3 or 4 Psychology 9-10 Sociology 31, 32	*Drawing u1-u2 †Education B01A, B02A English 15 English 91, 92 (III) *Fine Arts 153A (3-4.25) *Fine Arts 156 (3-4.25) Geology 17-18 *Italian 101-102 Mathematics 47 Mathematics 58 *Music u71-u72 (3-4.15) Psychology 5-6 Psychology 7-8 *Spanish 123 (3.30-5.30) Zoology 101, 102
4:10	*Archaeology 100 (4.35-5.50) *Fine Arts 153A (3-4.25) *Fine Arts 156 (3-4.25) *Fine Arts 163, 164 (4.35-5.50) *Music 63, 64 (I)	Comparative Linguistics 1, 2 English 11, 12 English 91, 92 (II) *Fine Arts 145, 146 (3-4.25) *Fine Arts 193 Geology 124 *Government 141-142 (4.35-6.15) *Greek 103, 104 Psychology 9-10	Economics 13, 14 †Education B01A, B02A English 91, 92 (III) *Fine Arts 153A (3-4.25) *Fine Arts 156 (3-4.25) *Music 119-120 *Physics 109 *Public Law 171-172 *Spanish 123 (3.30-5.30)
5:10	*Archaeology 100 (4.35-5.50) *Fine Arts 163, 164 (4.35-5.50) *Music 63, 64 (I) Choir practice	English 11, 12 *Fine Arts 193 *Government 141-142 (4.35-6.15) *Spanish 127 Glee Club	*Music 119-120 *Physics 109 *Public Law 171-172 *Spanish 123 (3.30-5.30) Choir practice

Courses marked with an asterisk [*] are given at Columbia University;

ATTENDANCE

Hours	THURSDAY	FRIDAY	SATURDAY
P.M.	Chemistry 65, 66 French 7, 8 (I, II, III) Geography 1, 2 Geology 17-18 History 61-62 Hygiene A1-A2 (III) Latin 29-30 Music 65, 66 Sociology 21, 22 Spanish 9-10 Spanish 11-12	Anthropology 1, 2 Botany 151-152 Chemistry 5-6 †Education 07A (I) English 21-22 (II) English 57 *Fine Arts 141 French 3, 4 (I) French 5, 6 (III) French 7, 8 (II) French 35, 36 German 1-2 (II) German 3, 4 (III) Government 1, 2 History 17, 18 Latin 11, 12 Mathematics 44 Mathematics 45 *Music 31-32 (I) *Music 35-36 Philosophy 68 Physics 36 Psychology 28 Sociology 53, 54 Spanish 1-2 (III) Zoology 101, 102	
1:10			
2:10	Classical Civilization 53, 54 English 23-24 English 65, 66 English 79, 80 English 91, 92 (IV) Fine Arts 51, 52 Government 11 Greek 1-2 History 11, 12 *Music 107, 108 Psychology 3 or 4 Psychology 9-10 Religion 3a, 4a Sociology 21, 22 Zoology 1-2	Chemistry 105 Economics 1-2 (II, III, IV) †Education 35A-36A English A1-A2 (IIa, b, c) English 91, 92 (V) *Fine Arts 191 French 3, 4 (II) French 5, 6 (IV) French 27, 28 German 1-2 (III, IV) Greek 1-2 History 7, 8 Mathematics 21R Mathematics 24 Mathematics 28 Mathematics 33 *Music 31-32 (II) *Music u75-u76 Spanish 3, 4 (II) Zoology 101, 102	
3:10	Archaeology 61, 62 Botany 150 English 23-24 English 65, 66 English 91, 92 (IV) *Fine Arts 145, 146 (3-4.25) Geology 19 Government 11 Latin 37, 38 Psychology 3 or 4 Psychology 9-10 Sociology 61-62	English 91, 92 (V) *Fine Arts 191 Mathematics 47 Mathematics 58 *Music 1-2 *Music u75-u76 Zoology 101, 102	
4:10	*Archaeology 100 (4.35-5.50) Comparative Linguistics 1, 2 *Fine Arts 145, 146 (3-4.25) *Fine Arts 163, 164 (4.35-5.50) Geology 124 *Greek 103, 104 *Music u33-u34 Psychology 9-10		
5:10	*Archaeology 100 (4.35-5.50) *Fine Arts 163, 164 (4.35-5.50) *Music u33-u34 *Spanish 127 Glee Club	Choir practice	

those marked with a dagger [†] are given at Teachers College.

ACADEMIC CALENDAR

1937-1938

1937

- July 12 — Monday. Thirty-eighth Summer Session of Columbia University begins.
- Aug. 20 — Friday. Thirty-eighth Summer Session of Columbia University ends.
- Aug. 30 — Monday. Last day for filing applications for entrance and deficiency examinations, and for advanced standing. The privilege of later application may be granted on payment of a fee of \$5.
- Sept. 13 — Monday. Entrance examinations and examinations for deficient students begin.
- Sept. 17 — Friday. Registration (including the payment of fees) begins.
- Sept. 21 — Tuesday. Registration ceases for Barnard students previously matriculated.
The privilege of later registration may be granted on payment of a fee of \$5.
- Sept. 22 — Wednesday. Winter Session, forty-ninth year begins.
Registration ceases for students matriculating for the first time.
The privilege of later registration may be granted on payment of a fee of \$5.
- Sept. 23 — Thursday. Classes begin.
- Oct. 19 — Tuesday. Stated meeting of University Council.
- Nov. 2 — Tuesday. Election Day, holiday.
- Nov. 23 — Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
- Nov. 25 — Thursday
to
Nov. 27 — Saturday, inclusive. Thanksgiving holidays.
- Dec. 21 — Tuesday. Stated meeting of University Council.
- Dec. 22 — Wednesday
to

1938

- Jan. 4 — Tuesday, inclusive. Christmas holidays.
- Jan. 9 — Sunday. Annual Commemoration Service in St. Paul's Chapel.
- Jan. 17 — Monday. Mid-year examinations begin.
- Jan. 31 — Monday. Registration ceases for students who have been in attendance during the winter session and whose programs have been approved.
The privilege of later registration may be granted on payment of a fee of \$5.
- Feb. 1 — Tuesday. Winter Session ends.
Registration for students matriculating for the first time and for students who have been in attendance during the winter

session and whose registration is deferred to this date by ruling of the Committee on Students' Programs.

The privilege of a late registration may be granted on the payment of a fee of \$5.

Feb. 2 — Wednesday. Spring Session begins. Classes begin.

Feb. 12 — Saturday. Alumnae Day.

Feb. 15 — Tuesday. Stated meeting of University Council.

Feb. 22 — Tuesday. Washington's Birthday, holiday.

Mar. 1 — Tuesday. Last day for filing applications for non-competitive scholarships, grants-in-aid, and residence grants.

Apr. 14 — Thursday
to

Apr. 18 — Monday, inclusive. Easter holidays.

Apr. 19 — Tuesday. Stated meeting of University Council.

May 16 — Monday. Final examinations begin.

May 29 — Sunday. Baccalaureate Service.

May 30 — Monday. Memorial Day, holiday.

June 1 — Wednesday. Conferring of degrees.

June 8 — Wednesday. Spring Session ends.

June 18 — Saturday. Examinations of the College Entrance Examination Board begin. The dates for filing applications are contained in a circular issued by the Board, 431 West 117th Street, New York, N. Y.

July 11 — Monday. Thirty-ninth Summer Session of Columbia University begins.

Aug. 19 — Friday. Thirty-ninth Summer Session of Columbia University ends.

Sept. 5 — Monday. Last day for filing applications for entrance or deficiency examinations, and for advanced standing. The privilege of later application may be granted on payment of a fee of \$5.

Sept. 19 — Monday. Entrance examinations and examinations for deficient students begin.

Sept. 23 — Friday. Registration (including the payment of fees) begins.

Sept. 27 — Tuesday. Registration ceases for Barnard students previously matriculated.

The privilege of later registration may be granted on payment of a fee of \$5.

Sept. 28 — Wednesday. Winter Session, fiftieth year, begins.

Registration ceases for students matriculating for the first time. The privilege of later registration may be granted on payment of a fee of \$5.

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